BU1(Napa) Block Diagram

CLOCK GEN
ICS954310
Page : 2

HOST 100/133MHz
PCI-E 100MHz
VGA 96MHz
USB 48MHz
PCI 33MHz
REF 14MHz

ISL6236
5V / 3.3V / 10V
Page : 24

5VPCU
3V_PCU
+3V_S5
+3VSUS
+5V_S5
+3V
+5V
15V

TPS51116
SC411MLTRT
1.8V / 0.9V / VCCP
Page : 26.27

+1.8VSUS
+0.9VSUS
+0.9V
+VCCP

ISL6262A
CPU CORE
Page : 22

VCC_CORE

+2.5V / +1.2V
Page : 28

+2.5V
+1.5V

BATTERY CHARGER
Page : 25

Yonah / Merom
INTEL Mobile_479 CPU
Page : 3,4

HOST BUS 667/533MHz

Calistoga
945GM / 945PM / 940GML
1466 BGA
Page : 5 ~ 9

DDR2-SODIMM Page : 10 — Channel A
DDR2-SODIMM Page : 10 — Channel B
DDR2 667/533MHz

RGB → **CRT** Page : 14
LVDS → **13.3" W LVDS** Page : 14

DMI I/F

ICH7-M
652 BGA
Page : 11,12

IDE-ODD Page : 15 — ATA 66/100
SATA-HDD Page : 15 — SATA
Azalia
USB 2.0
LPC
PCIE
PCI BUS

Azalia MDC Page : 21

CODEC & MDC Board To Board Connector Page : 20
VR
VR
USB 2.0
Azalia

Winbond KBC(8763) Page : 19
SPI → **FLASH** Page : 22
FAN Page : 3
Touchpad Page : 20
Keyboard Page : 20

USB0,1,2 **SYSTEM USB 3 PORT** Page : 20
USB3 **BLUETOOTH** Page : 20
USB4 **Finger Printer** Page : 19
USB5 **NEW CARD** Page : 20
USB6 **3G MINI CARD** Page : 19
USB7 **CAMERA** Page : 14

REALTEK 10-100 LAN RTL8111B Page : 20
10/100 → **RJ45 Board To Board Connector** Page : 20
USB 2.0

MINICARD Page : 19
3G MINICARD Page : 19
NEW CARD Page : 20

10/100
USB 2.0
RJ45
USB 1 Port
RJ11
RJ45 & RJ11 Board

ENE CB1410/CP-2211 Page : 14,15
→ **PCMCIA Typeⅱ** Page: 14

RICOH R5C832/833 Page : 14,15
→ **1394** Page: 15
→ **5 IN 1 MMC/SD/MS/MS PRO/XD** Page: 15

USB 2.0
USB 2 Port
Azalia
AUDIO CODEC ALC262
AMP Panasonic AN12948A
INT SPK
HP OUT
Volume Wheel
MIC
FM Tuner
Audio Board

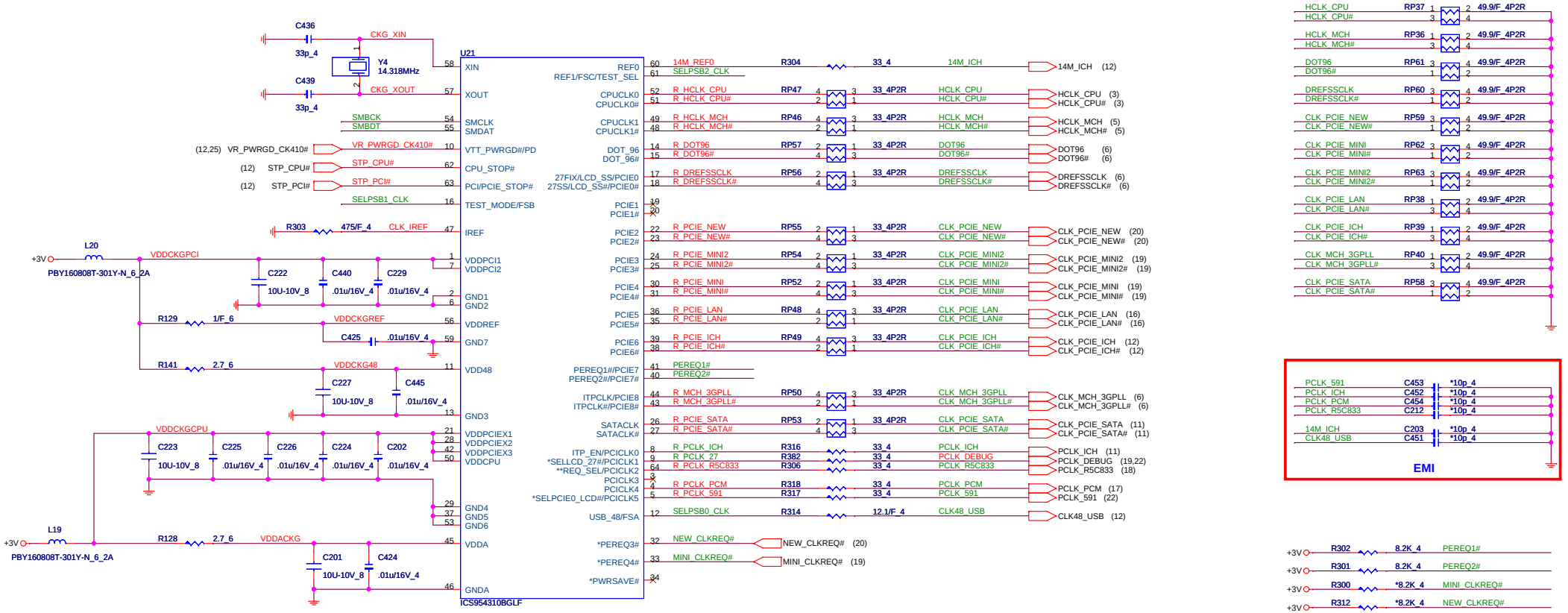
PCI ROUTING TABLE	IDSEL	INTERRUPT	DEVICE
REQ0# / GNT0#	AD17	INTA#,INTB#	Card Reader Controller
REQ1# / GNT1#	AD20	INTC#	Card Bus Controller

PROJECT : BU1(NAPA)
Quanta Computer Inc.

Size	Document Number	Rev
	BLOCK DIAGRAM	1C

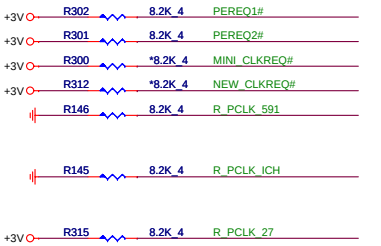
Date: Tuesday, March 20, 2007 Sheet 1 of 28

CLOCK GENERNATOR



PEREQ1# --> PCIE0 & PCIE6
PEREQ2# --> PCIE1 & PCIE8
PEREQ3# --> PCIE2 & PCIE4
PEREQ4# --> PCIE3 & PCIE5 & PCIE7

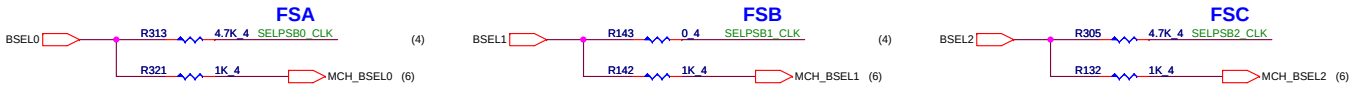
SMBUS Address : D2 (Read) , D3 (Write)



LCD / PCI SELECT
0: LCD 1: PCI

ITP/SRC7 SELECT
0: SRC7 1: ITP

SELLCD_27# SELECT
0: 27MSS 1: LCD CLK



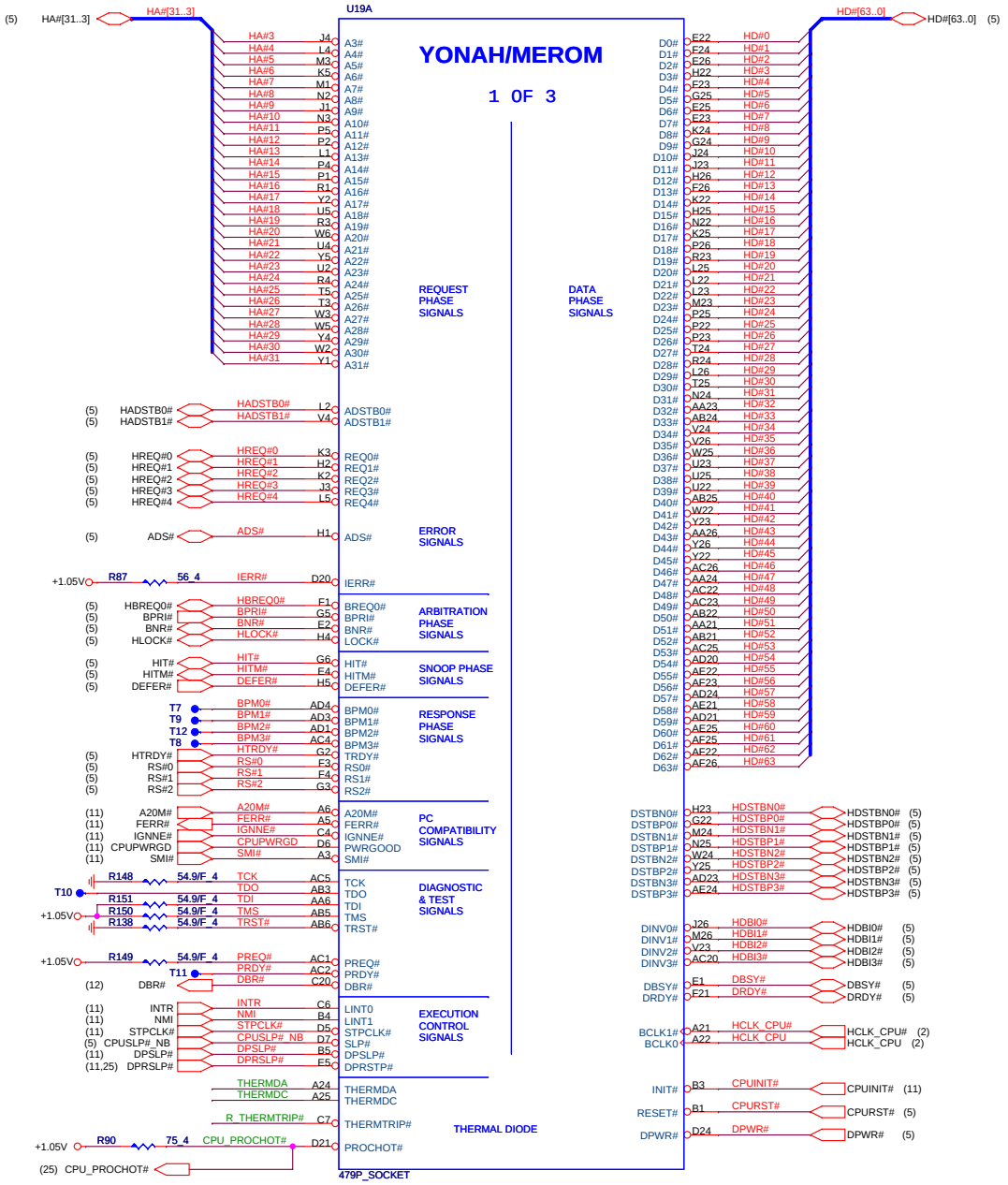
FSB SETTING

FSC	FSB	FSA	CPU	PCIE	PCI
0	0	0	266	100	33
0	0	1	133	100	33
0	1	0	200	100	33
0	1	1	166	100	33
1	0	0	333	100	33
1	0	1	100	100	33
1	1	0	400	100	33
1	1	1	200	100	33

PROJECT : BU1(NAPA)
Quanta Computer Inc.

Size	Document Number	Rev
	CLOCK GENERATOR	1C

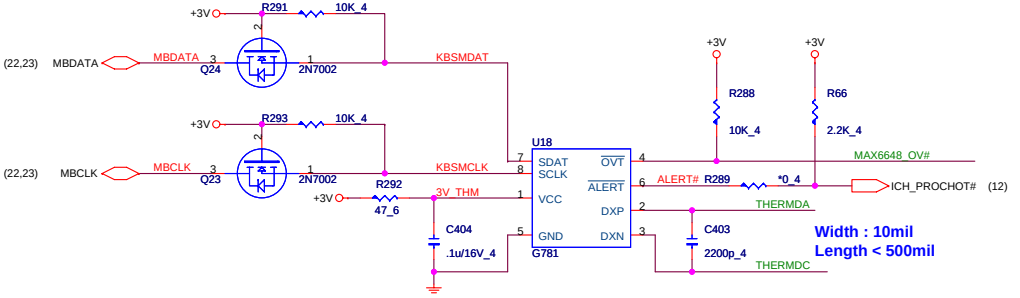
Date: Thursday, March 29, 2007 Sheet 2 of 28



CPU

PROCHOT# Active: CPU reached it's max. saft operating temp
Thermtrip# Active: CPU junction temp exceeds 125 degree

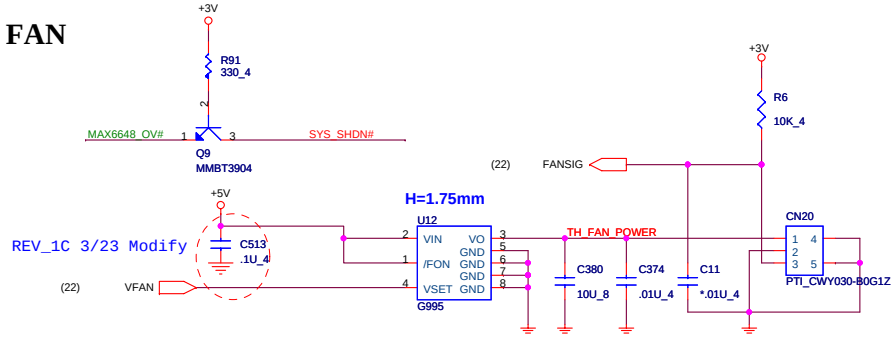
SMBUS Address : 98



THM

MAXIM 6657 : AL006657020
GMT G781 : AL000781101

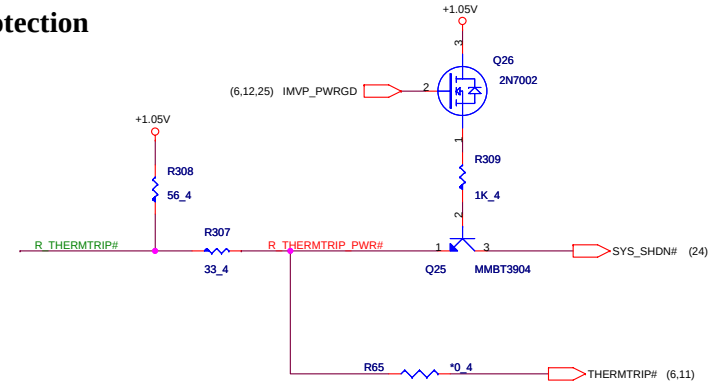
CPU FAN



THM

FANPWR = 1.6*VSET

125 Degree Protection



PROJECT : BU1(NAPA) Quanta Computer Inc.		
Size	Document Number: CPU (HOST) / FAN	Rev: 1C
Date: Friday, March 30, 2007	Sheet 3 of 28	

COMP0 ~ COMP3
Width : 20mil
Length < 500mil

GTLREF
Width : 5mil
Length < 500mil

U19B

YONAH / MEROM

2 OF 3

POWER, RESERVED SIGNALS

479P_SOCKET

CAPACITOR HEIGHT:1.25 +/- 0.2 mm

U19C

YONAH/MEROM

3 OF 3

GROUND

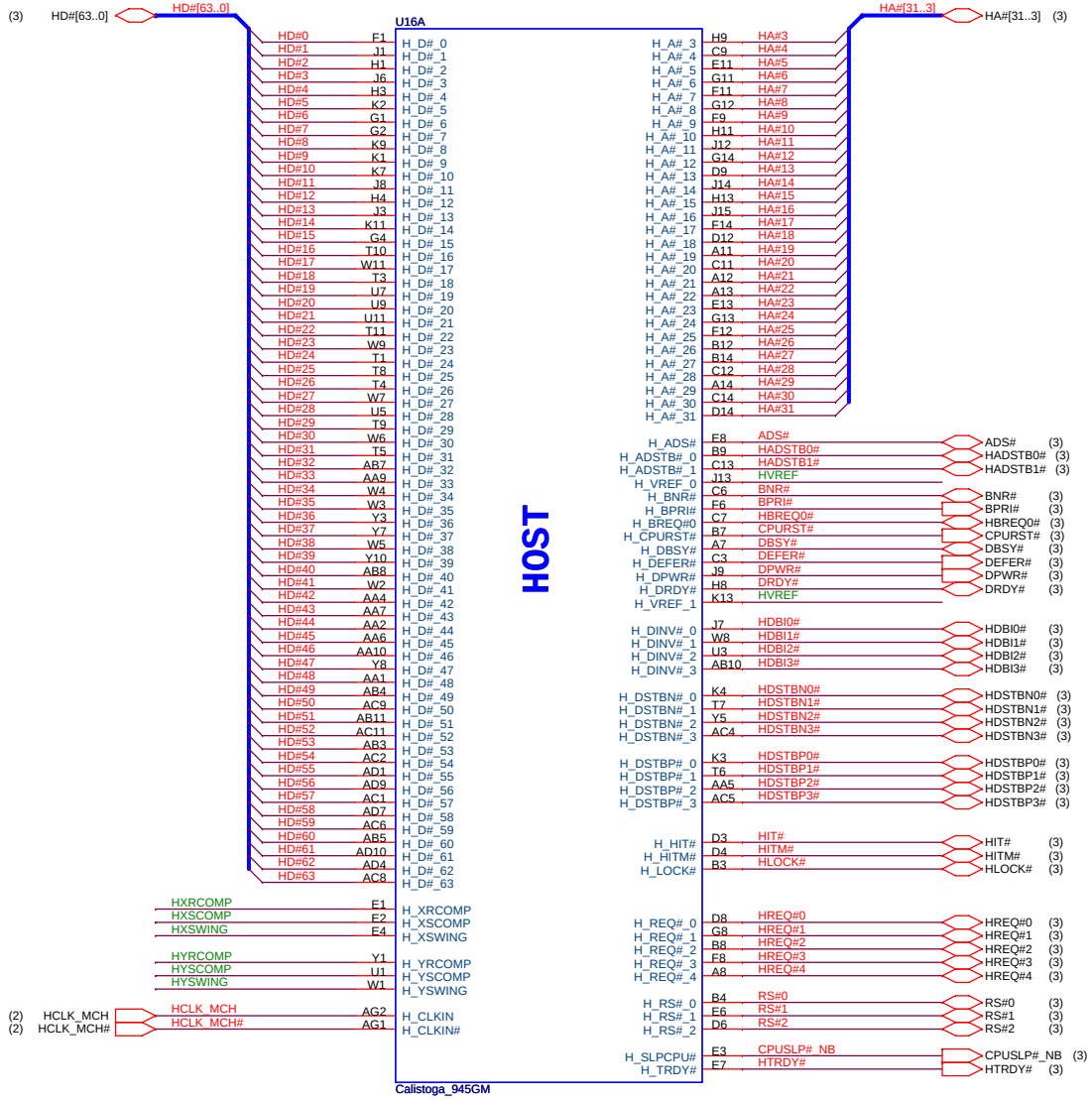
479P_SOCKET

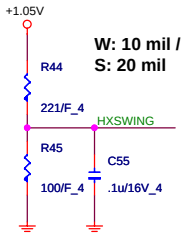
CPU

PROJECT : BU1(NAPA)
Quanta Computer Inc.

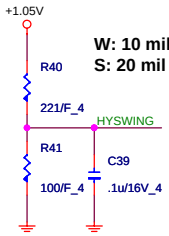
Size	Document Number	Rev
	CPU (POWER/GND)	1C

Date: Thursday, March 29, 2007 Sheet 4 of 28

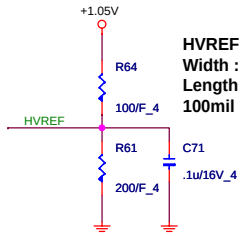




W: 10 mil / S: 20 mil



W: 10 mil / S: 20 mil

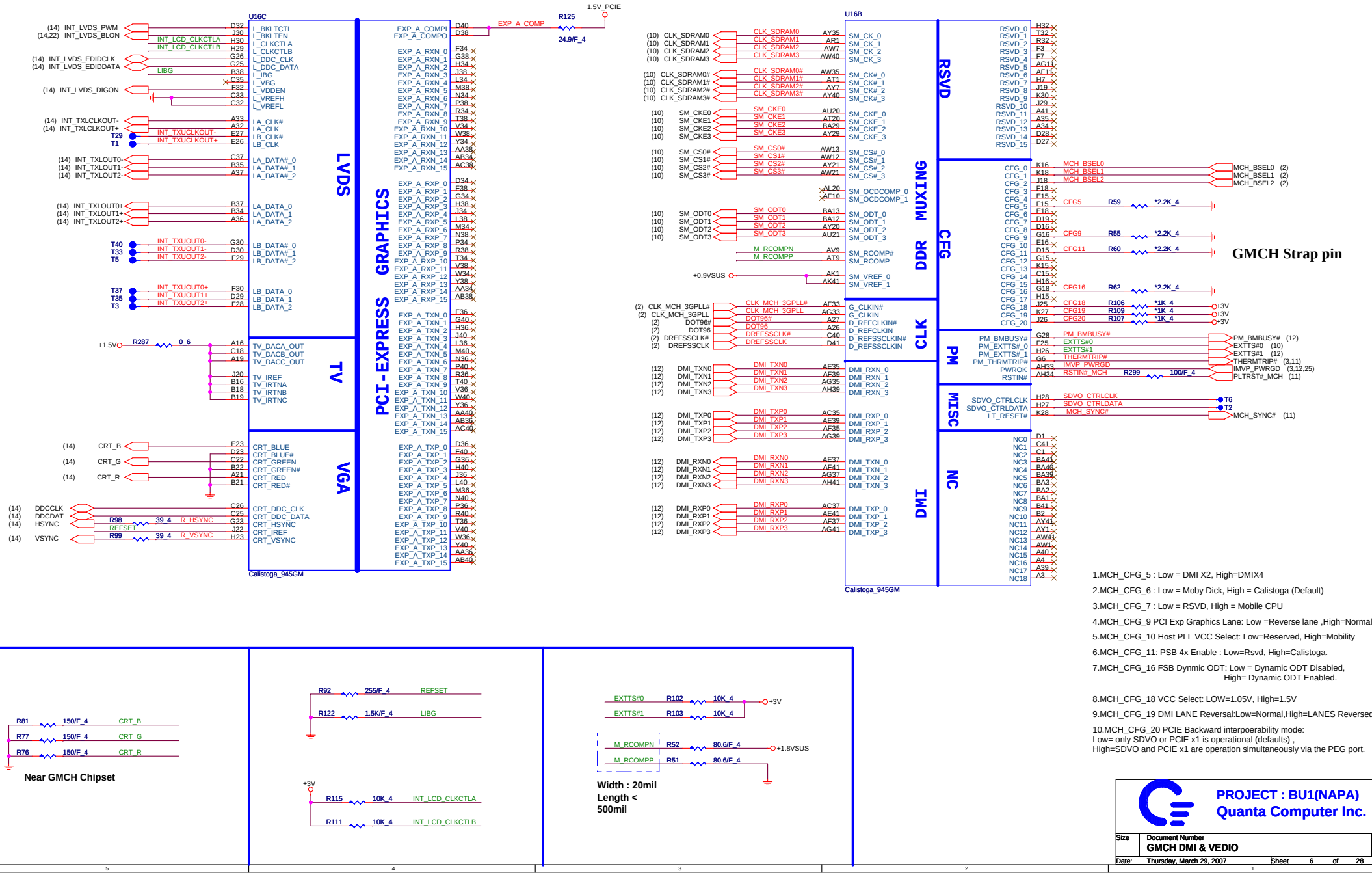


HVREF
Width : 20mil
Length < 100mil

W: 10 mil / S: 20 mil

PROJECT : BU1(NAPA)
Quanta Computer Inc.

Size	Document Number	Rev
	GMCH (HOST)	1C
Date: Thursday, March 29, 2007	Sheet 5 of 28	



1.MCH_CFG_5 : Low = DMI X2, High=DMIX4

2.MCH_CFG_6 : Low = Moby Dick, High = Calistoga (Default)

3.MCH_CFG_7 : Low = RSVD, High = Mobile CPU

4.MCH_CFG_9 PCI Exp Graphics Lane: Low =Reverse lane ,High=Normal

5.MCH_CFG_10 Host PLL VCC Select: Low=Reserved, High=Mobility

6.MCH_CFG_11: PSB 4x Enable : Low=Rsvd, High=Calistoga.

7.MCH_CFG_16 FSB Dynmic ODT: Low = Dynamic ODT Disabled, High= Dynamic ODT Enabled.

8.MCH_CFG_18 VCC Select: LOW=1.05V, High=1.5V

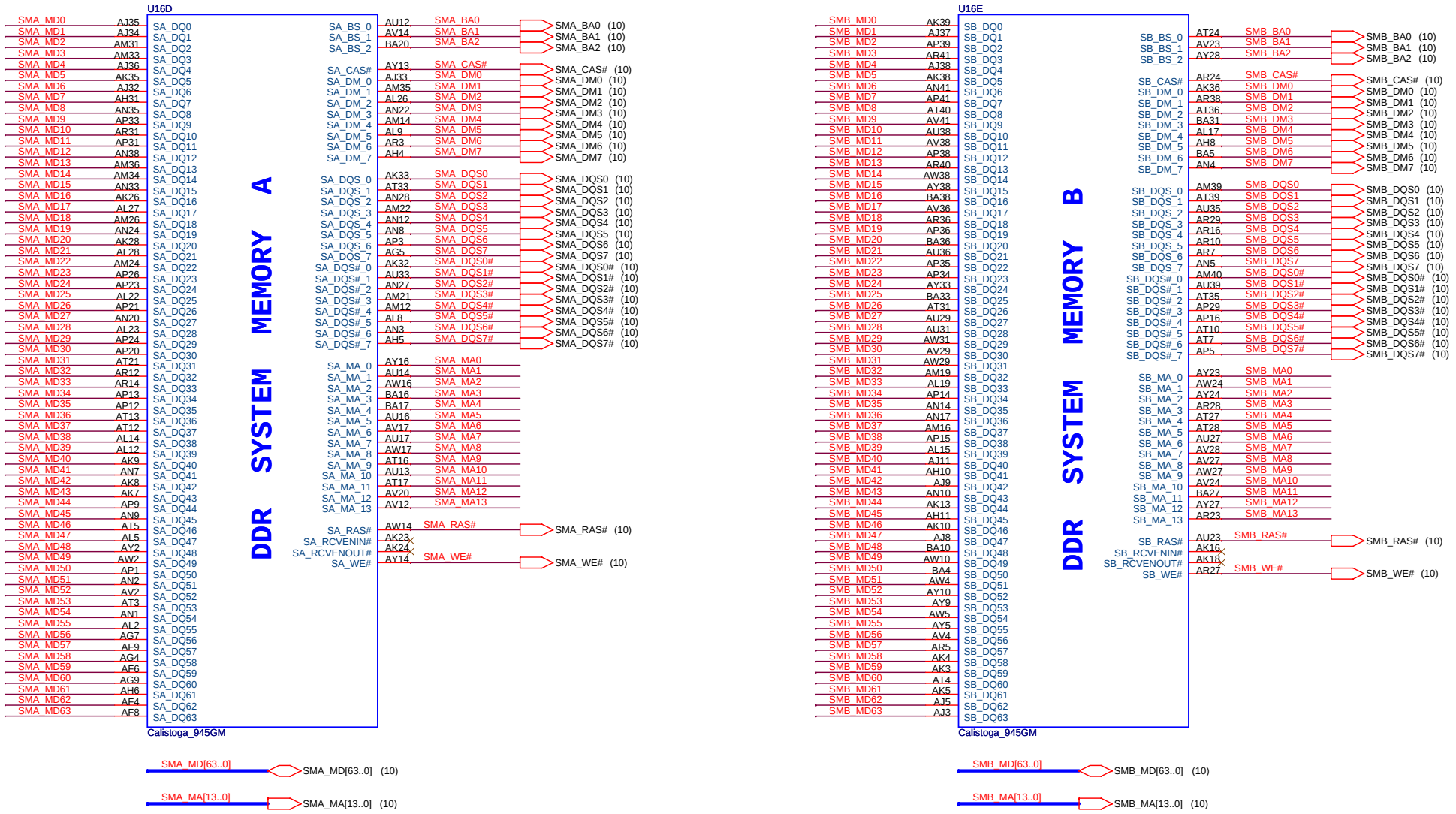
9.MCH_CFG_19 DMI LANE Reversal:Low=Normal,High=LANES Reversed.

10.MCH_CFG_20 PCIE Backward interpoerability mode:
Low= only SDVO or PCIE x1 is operational (defaults) ,
High=SDVO and PCIE x1 are operation simultaneously via the PEG port.

PROJECT : BU1(NAPA)
Quanta Computer Inc.

Size	Document Number	Rev
	GMCH DMI & VEDIO	1C

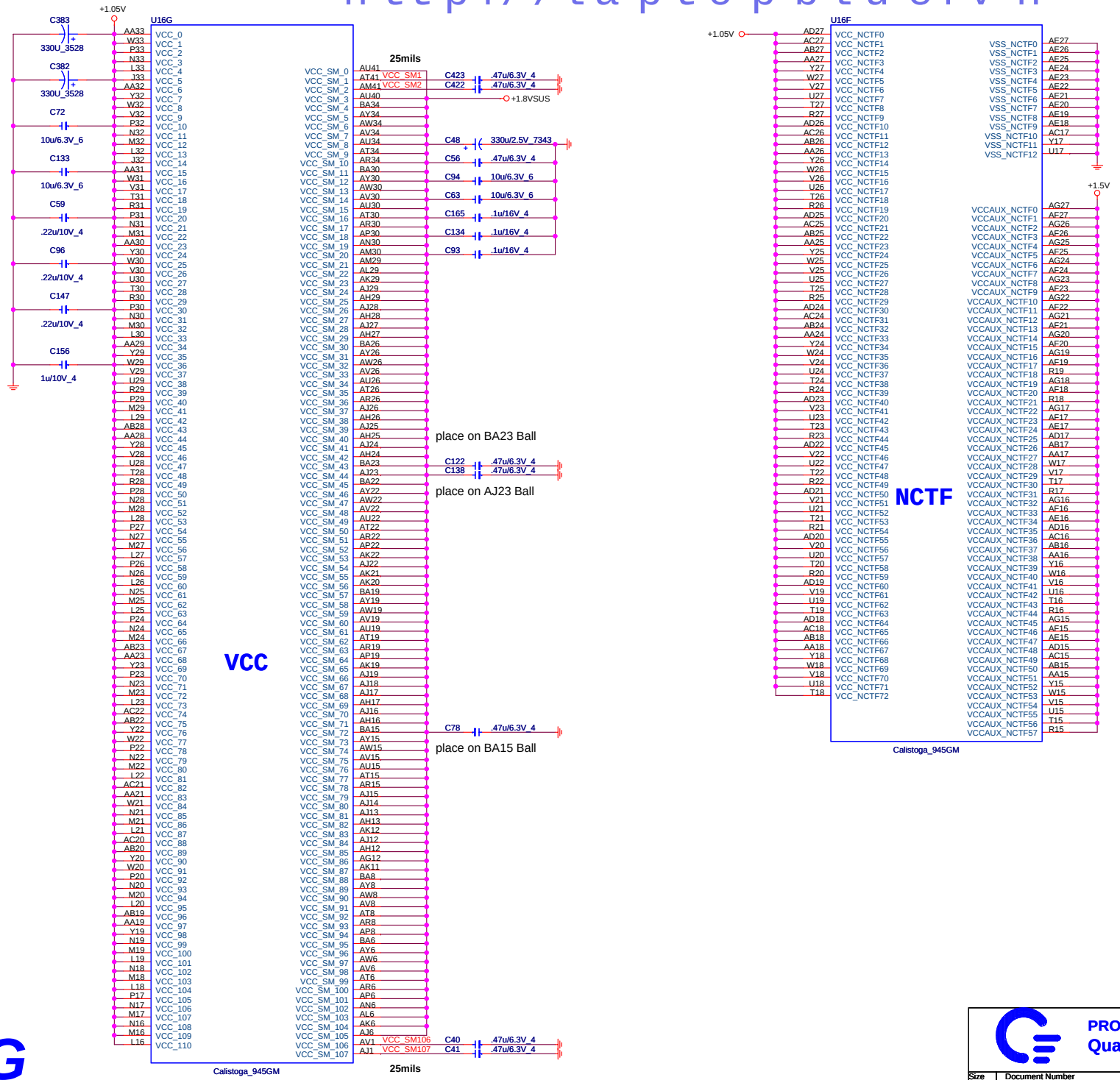
Date: Thursday, March 29, 2007 Sheet 6 of 28



CLG

PROJECT : BU1(NAPA)
Quanta Computer Inc.

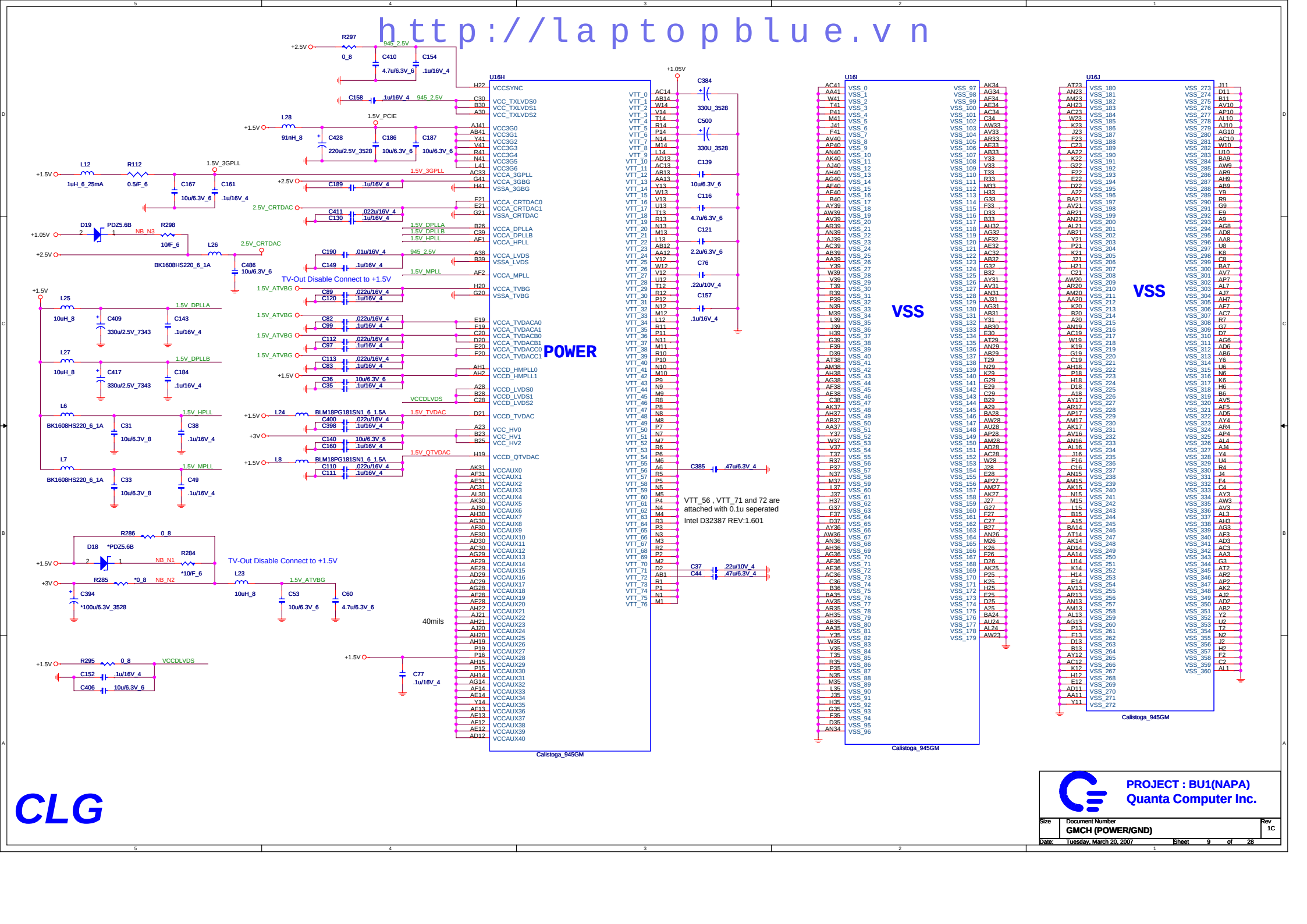
Size	Document Number	Rev
	GMCH (MEMORY)	1C
Date: Thursday, March 29, 2007	Sheet 7 of 28	



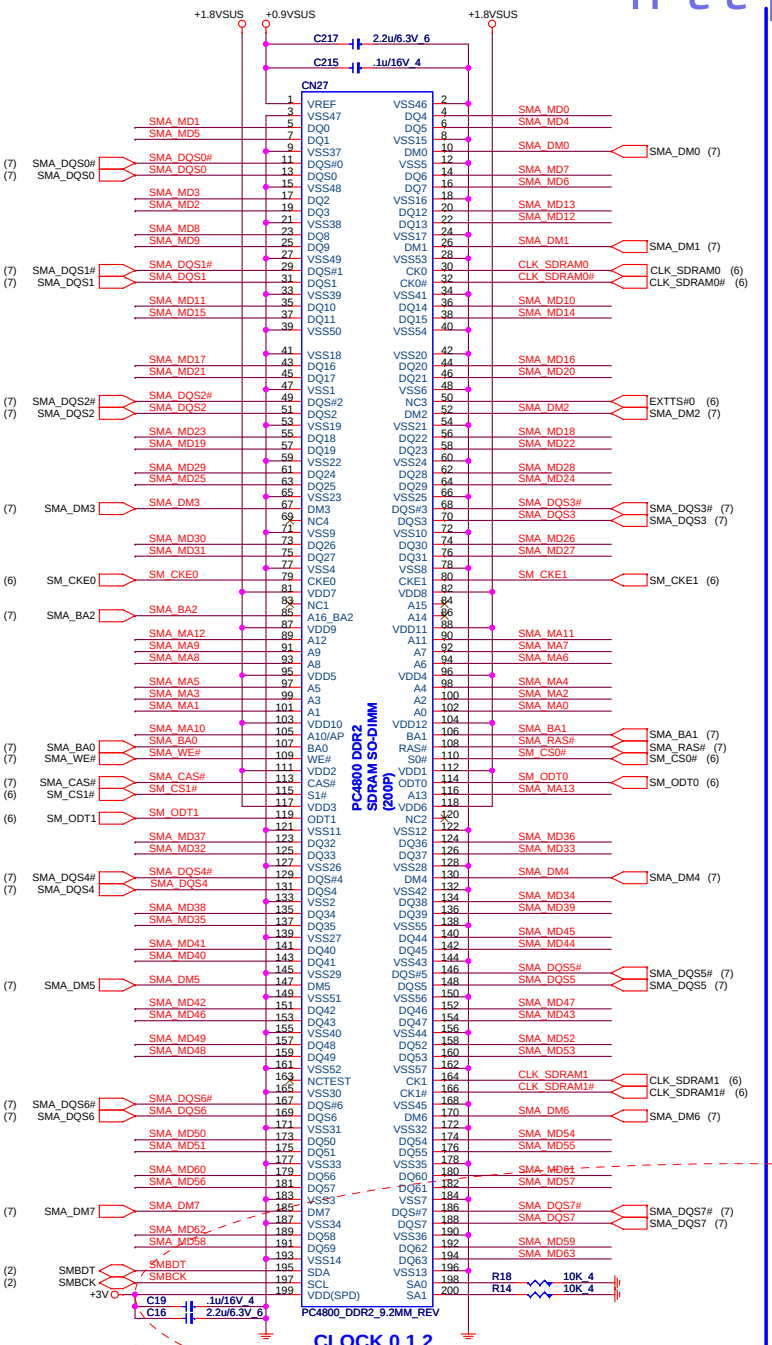
CLG

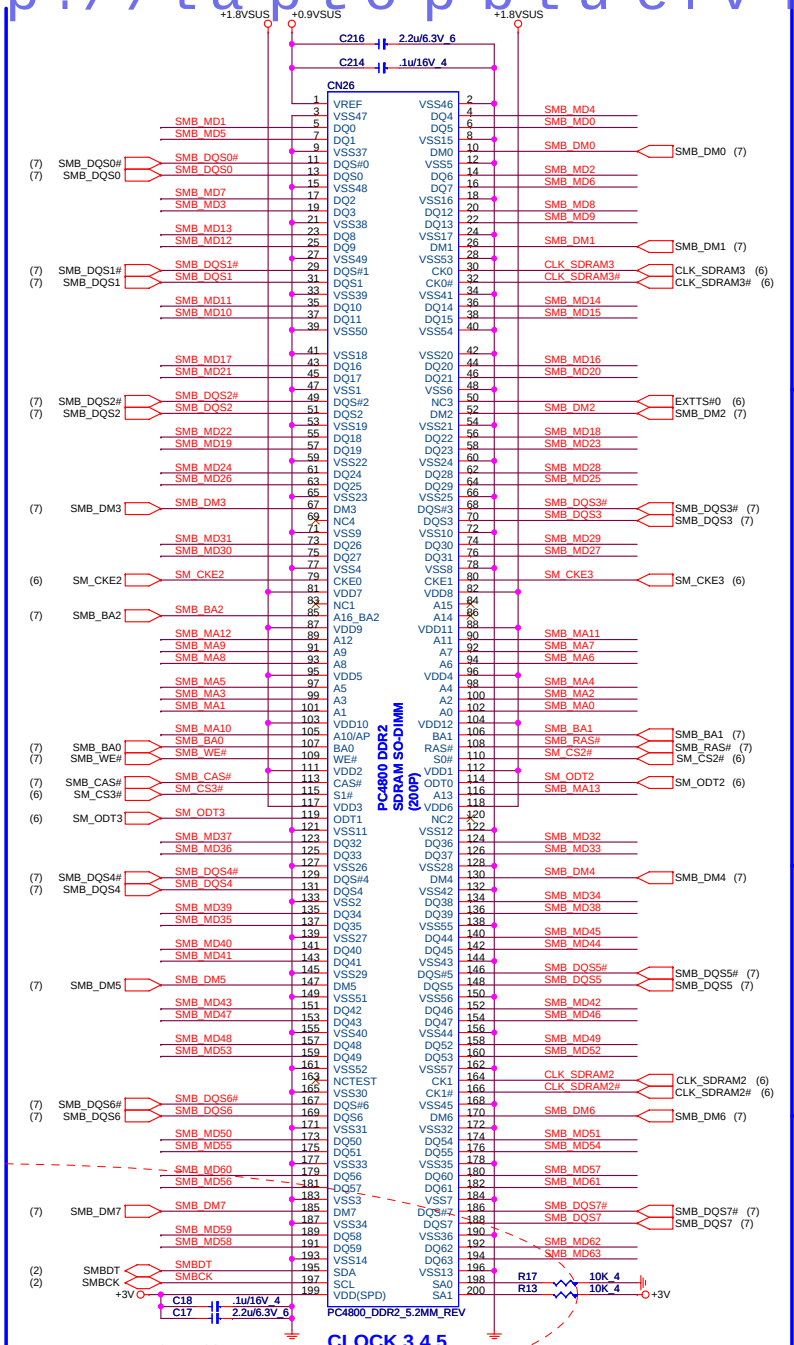
PROJECT : BU1(NAPA)
Quanta Computer Inc.

Size	Document Number	Rev
	GMCH (POWER/NCTF)	1C
Date: Tuesday, March 20, 2007	Sheet 8 of 28	



DDR2 SO-DIMM SOCKET





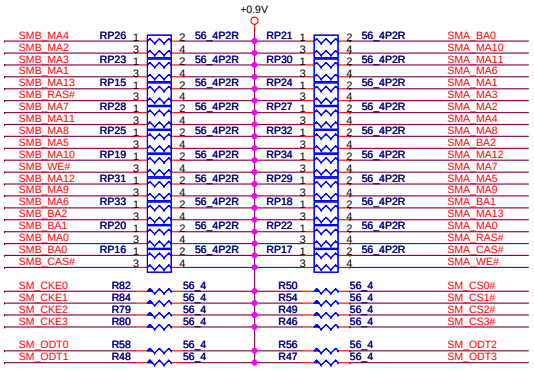
DDR

(7) SMA_MD[63..0] → SMA_MD[63..0]
(7) SMA_MA[13..0] → SMA_MA[13..0]

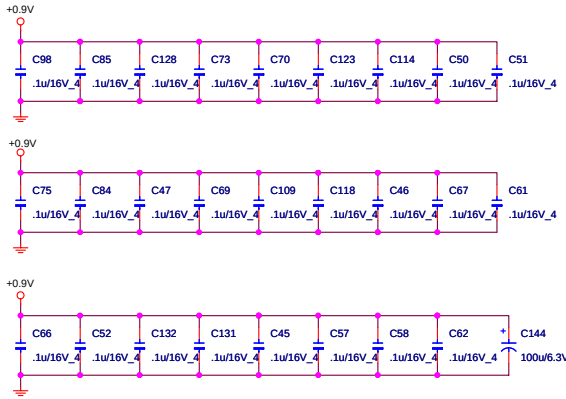
REV_1C 3/23 Modify SO-DIMM footprint

(7) SMB_MD[63..0] → SMB_MD[63..0]
(7) SMB_MA[13..0] → SMB_MA[13..0]

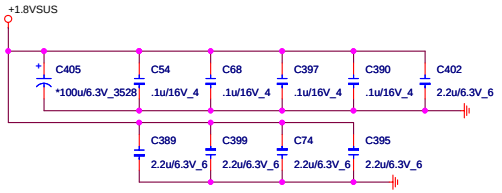
DDR2 TERMINATOR



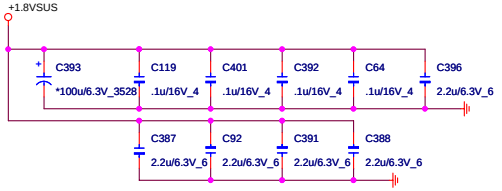
TERMINATOR DECOUPLING CAPACITOR



CLOSE SO-DIMM SOCKET CAPACITORS



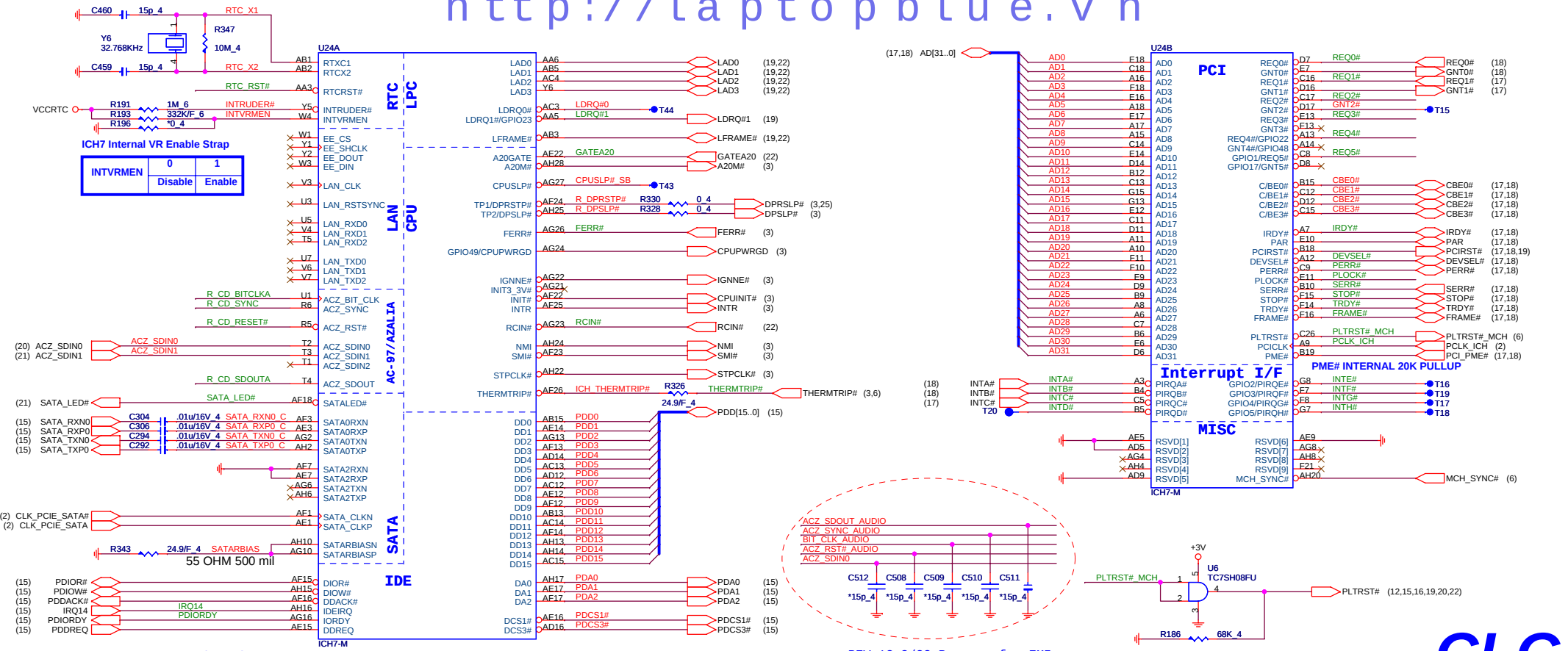
CLOSE SO-DIMM SOCKET CAPACITORS



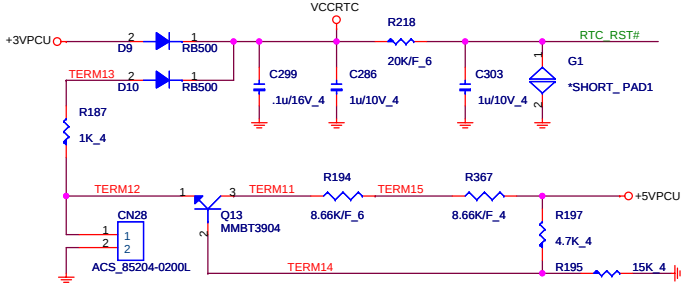
PROJECT : BU1(NAPA)
Quanta Computer Inc.

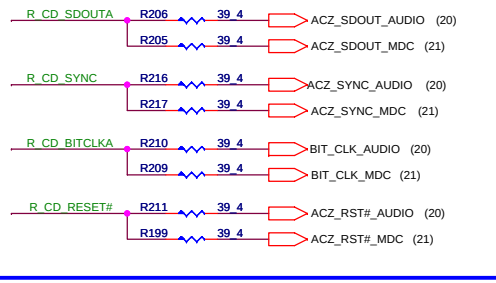
Size	Document Number	Rev
	DDR SO-DIMM(200P)	1C

Date: Friday, March 30, 2007 Sheet 10 of 28

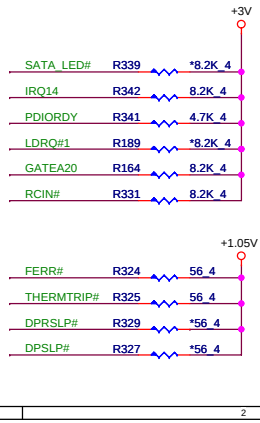


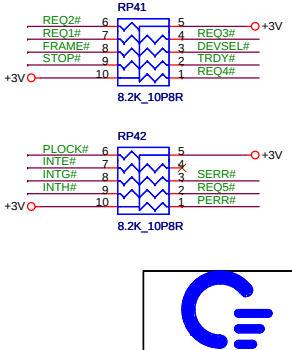
RTC





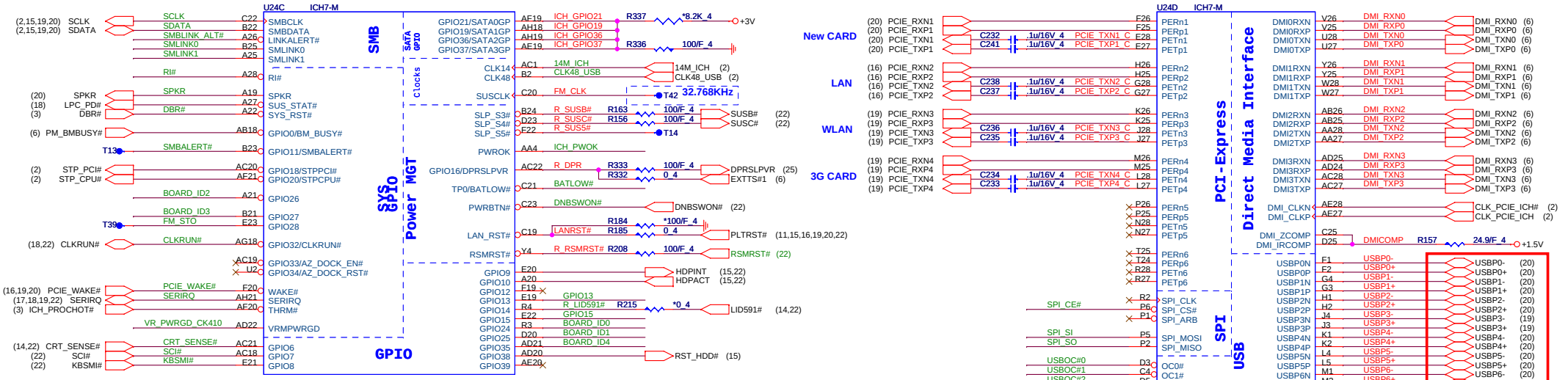
Reserved For EMI





PROJECT : BU1(NAPA)
Quanta Computer Inc.

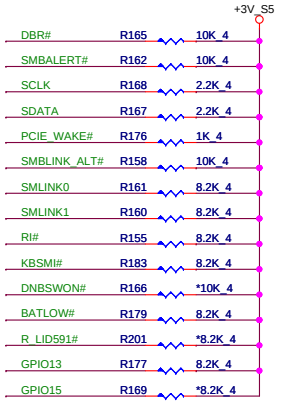
Size	Document Number	Rev
	ICH7 (CPU/PCI/IDE)	1C
Date: Friday, March 30, 2007	Sheet 11 of 28	

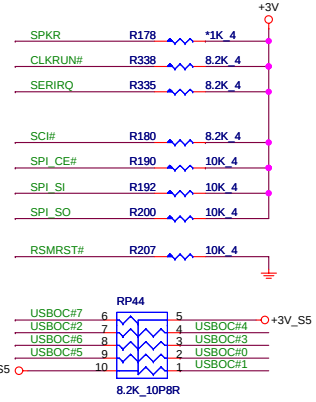


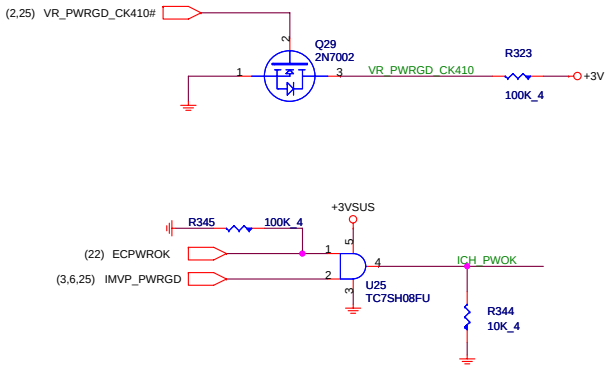
NAME	Tolerance	Power Well
GPIO6,7	3.3V	Core
GPIO8,9,10	3.3V	Resume
GPIO11	3.3V	Resume
GPIO12,13,14,15	3.3V	Resume
GPIO24,25,28	3.3V	Resume
GPIO35,38,39	3.3V	Core

USB Pair 0: Audio Board Con Pin2,3
USB Pair 1: RJ45/USB Con
USB Pair 2: Audio Board Con Pin4,5
USB Pair 3: GPS or Relatek WLAN
USB Pair 4: Finger Printer
USB Pair 5: Blue Tooth
USB Pair 6: New Card
USB Pair 7: Camera

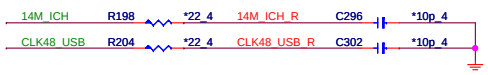
CLG



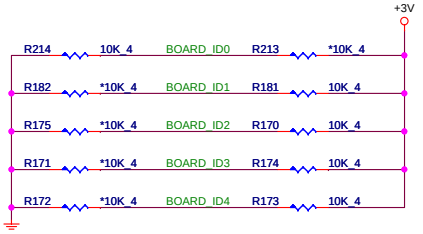




Reserved For EMI



MB ID



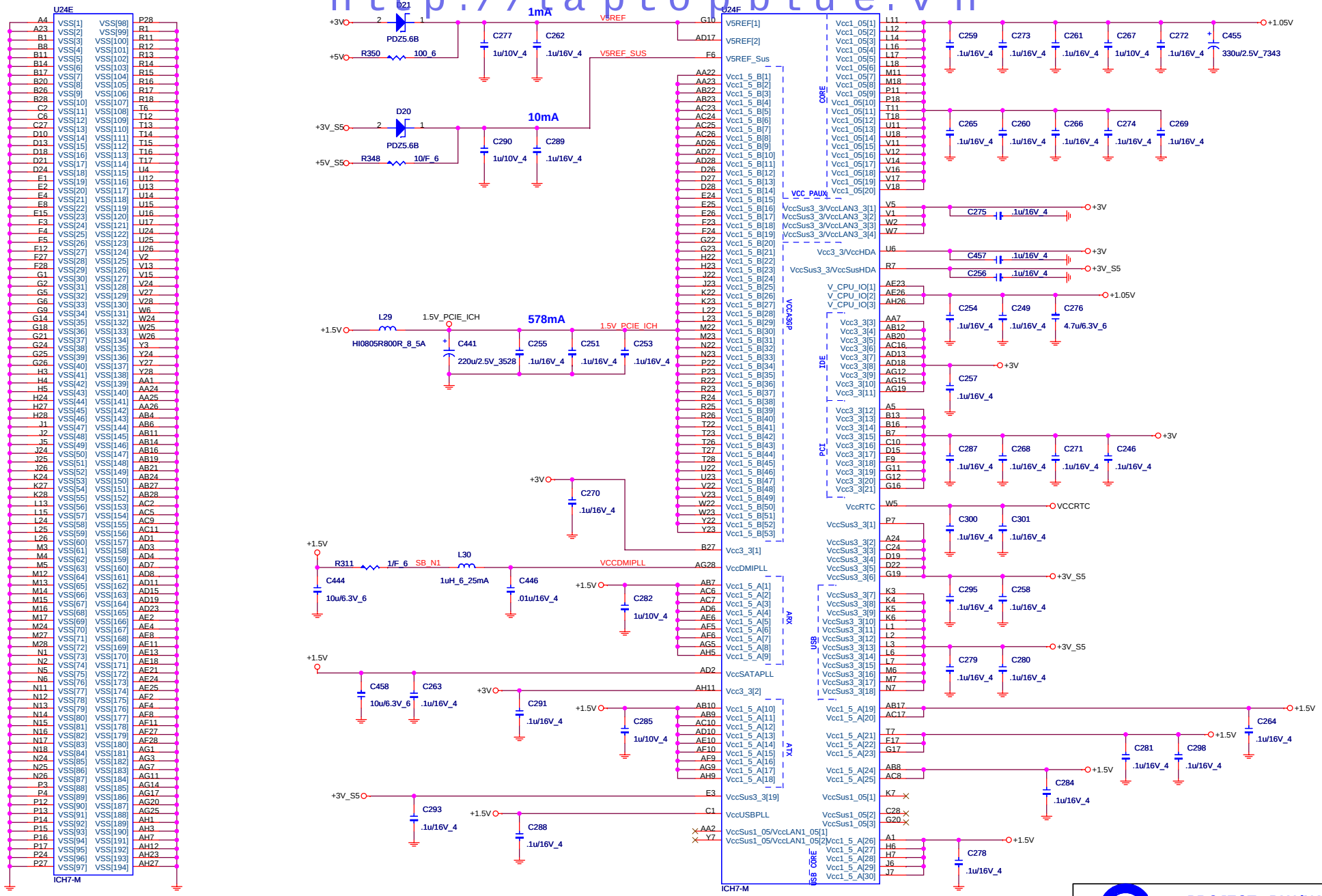
MB ID Selection Table

	BOARD_ID0	BOARD_ID1	BOARD_ID2	BOARD_ID3
W/ New Crad	H			
W/O New Crad	L			
W/ Crad Bus		H		
W/O Crad Bus		L		
W/ G-Sensor			H	
W/O G-Sensor			L	
W/ CCD				H
W/O CCD				L

PROJECT : BU1(NAPA)
Quanta Computer Inc.

Size	Document Number	Rev
	ICH7 (USB/GPIO)	1C

Date: Thursday, March 29, 2007 Sheet 12 of 28



CLG

CRT PORT

REV_1C 3/20 D1, F2 exchange

REV_1C 3/26 Modify for EA test

REV_1C 3/26 Modify for EA test

REV_1C 3/26 Modify for EA test

25 MIL

H=1.75mm

VGA

LID SWITCH

VGA

CAMERA MODULE Power

CAM

Rev:3A 03/19 Edit wrong DISPON_O2 Net Name.

TOSHIBA LED PANEL MODULE

REV_1C 3/28 Del CN36

REV_1C 3/28 Del RP67,Q10,Q36

LCD/LED TYPE CONNECTOR

LCD PANEL MODULE

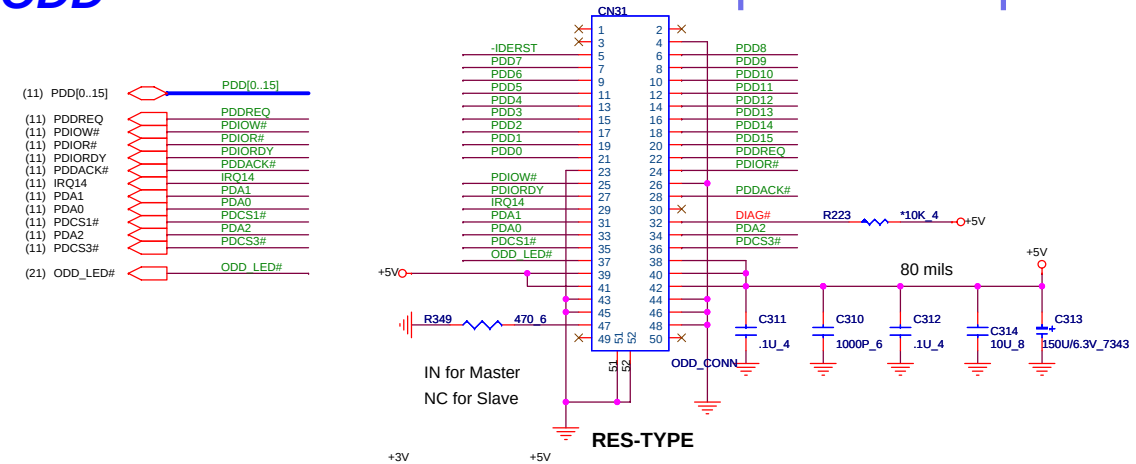
VGA

PROJECT : BU1(NAPA)
Quanta Computer Inc.

Size	Document Number	Rev
	LCD/CRT/LID/CAMERA	1C

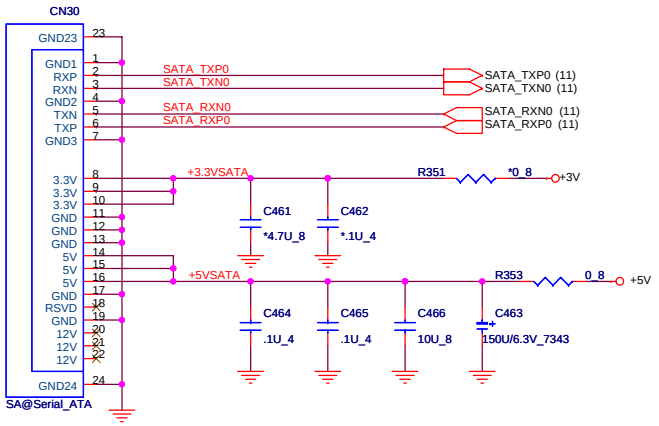
Date: Friday, March 30, 2007 Sheet 14 of 28

ODD



IDE

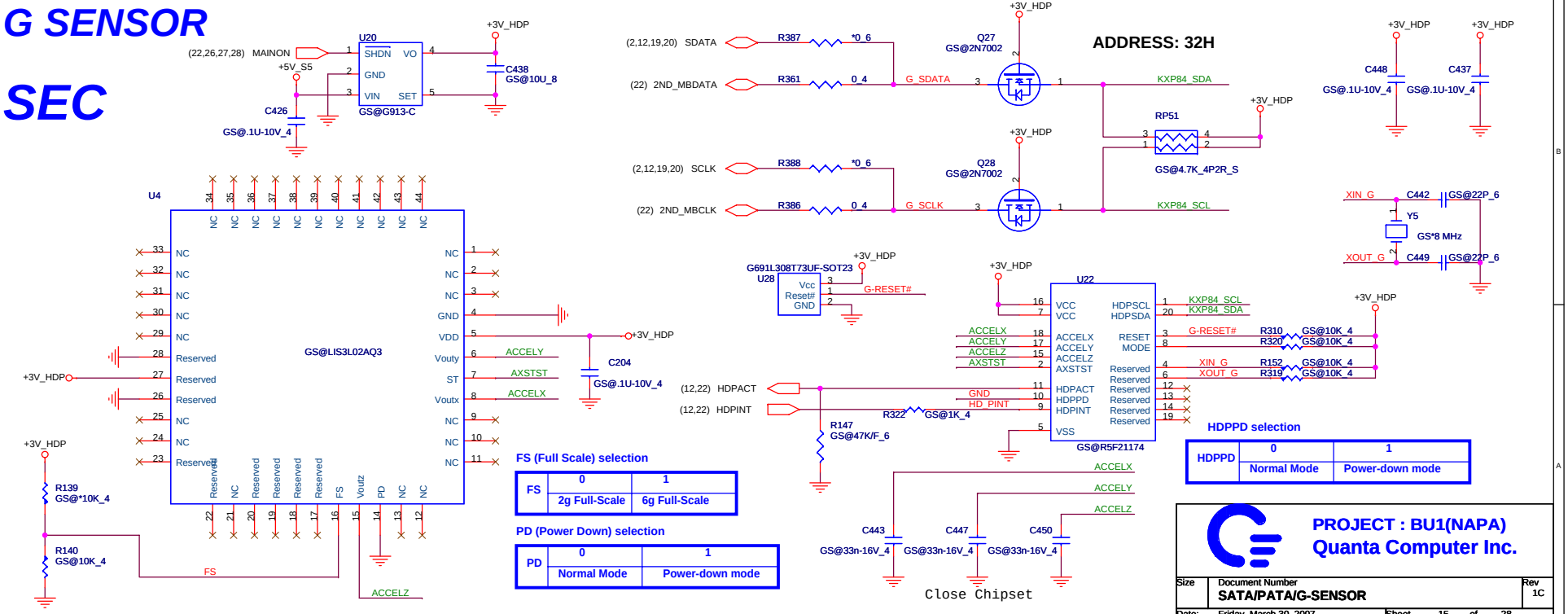
SATA HDD



IDE

G SENSOR

SEC



PROJECT : BU1(NAPA)
Quanta Computer Inc.

Size	Document Number	Rev
	SATA/PATA/G-SENSOR	1C

Date: Friday, March 30, 2007 Sheet 15 of 28

93C56: STUFF
93C46: NOSTUFF

U1 93C46-3GR

U2 RTL8111B/8111C/8101E

MDI0 Pair	Tx
MDI1 Pair	Rx

REV_1C 3/27 Add for EMI requirement

close chipset

close connector

To SB TX

To SB RX

REV_1C 3/26 Add

LAN

REV_1C 3/26 Reserve For LAN power enable

PROJECT : BU1(NAPA)
Quanta Computer Inc.

Size	Document Number	Rev
	RTL8101E 10/100 LAN	1C

Date: Thursday, March 29, 2007 Sheet 16 of 28

REV_1C_3/27_Mount for ENI

ENE1410	AJ014100T41

ID Select : AD20
Interrupt Pin : INTC#
Request Indicate : REQ1#
Grant Indicate : GNT1#

CBS

H=1.4mm

U8

CB1410

U10

ENE CP-2211 H=2mm

CN16 PCMCIA SOCKET

SANTA-1310671-68P

PROJECT : BU1(NAPA)
Quanta Computer Inc.

Size	Document Number	Rev
	PCMCIA(CB1410)	1C

Date: Friday, March 30, 2007 Sheet 17 of 28

R5C832 : AJ5C8320H26
R5C833 : AJ5C8330H05

5 IN 1 CARD READER

ID Select : AD17
Interrupt Pin : INTA#,INTB#
Request Indicate : REQ0#
Grant Indicate : GNT0#

PowerOnReset for Vcc
When GRESET# is controlled by system, the pull-up resistor and capacitor do not need to apply.

REV_1C 3/27 Mount for EMI

If VCC_3V tied to +3V, PME# function is not supported

When HWSPND# is controlled by system, the pull-up resistor(R4059) dose not need to apply.

REV_1C 3/23 Delete CN33, CN34

Default setting:
INTA# is assert to 1394
INTB# is assert to Cardreader

Reserve MS DUO card issue (For A-test only)

REV_1C 3/28 Del U26 and C352

XD_RE#/CLK should shield GND.
Close to CONN.

AS CLOSE AS POSSIBLE TO R5C833 and GUARD GND

SD can't recognize issue in ES1 sample

Close to CONN.
Reduced external noise by FAE confirm

CARDREADER POWER

30mil

MMC

1394

AS CLOSE AS POSSIBLE TO R5C833

REV_1C 3/23 Modify_1394 footprint

Check connector footprint

FIW

> 1 ms
>60 ns
>100 ns
VCC
GRST#
PRST#
PCLK(33MHz)

PROJECT : BU1(NAPA)
Quanta Computer Inc.

Size	Document Number	Rev
	R5C832/833(5IN1/1394)	1C

Date: Thursday, March 29, 2007 Sheet 18 of 28

REV_1C 3/23 Change to +3V_S5 for wake from WLAN

Mini PCI-E Card WLAN

REV_1C 3/23 Mount Q6 for wake from WLAN

REV_1C 3/23 Change to +3V_S5 for wake from WLAN

REV_1C 3/28 Add 10K pull up

REV_1C 3/23 Add for Realtek WLAN

To BT

Mini PCI-E Card

80ohm/4A

Peak: 2.75A

REV_1C 3/27 Add for EMI requirement

REV_1C 3/23 Change to NOSTUFF Reserve for GPS

RFM

NB SINK

HOLE5 H-C165D122P2-8
HOLE12 H-C165D122P2-8

CPU SINK

HOLE8 H-C165D122P2-8
HOLE9 H-C165D122P2-8
HOLE13 H-C165D122P2-8
HOLE14 H-C165D122P2-8

MINI CARD SINK

HOLE4 H-C197D122P2-8
HOLE6 H-C197D122P2-8

MB SINK

REV_1C 3/28 Modify

HOLE3 H-C236D94P2-8
HOLE1 H-C236D106P2-8
HOLE2 H-C236D94P2-8
HOLE20 H-C315D94P2-8
HOLE10 H-TC295BC236D94P2-8
HOLE19 H-C315D94P2-8
HOLE21 H-C236D94P2-8
HOLE11 H-C236D106P2-8
HOLE15 H-C189D189N
HOLE23 H-C197D94P2-8

REV_1C 3/26 Add

PCMCIA SINK

HOLE16 H-C177D138P2-8
HOLE18 H-C177D138P2-8

MDC

PCMCIA SINK

HOLE17 H-C165D122P2-8
HOLE22 H-C177D138P2-8

OTH

PROJECT : BU1(NAPA)
Quanta Computer Inc.

Size	Document Number	Rev
	MINI CARD/HOLE	1C

Date: Friday, March 30, 2007 Sheet 19 of 28

INT KeyBoard

+3VPCU
RP35
10K8X8
100Px4 CP1
100Px4 CP2
100Px4 CP3
100Px4 CP5
100Px4 CP6
REV_1C 3/23 Del CP4
REV_1C 3/28 CP1,CP2,CP3,CP5,CP6 Change to 100pF
CN6
BL121-28R-TAND-28P-L-BU1
REV_1C 3/27 Modify footprint
R127 150_4 K_LED_P

USB

Audio Board_USB
CN11
88266-100XX-XXX-10P-R
Wire Cable 1.25mm Pitch
PAD1 EMIPAD134X471
REV_1C 3/28 Add for EMI requirement
REV_1C 3/20 Modify
U23 SN74LVC1G86DCKR
PCMSPK_DELAY
R340 33_4
C456 .1U_4

ADO

Audio Board_Azalia
CN18
BL121-14R-TAND-14P-L-BU1
REV_1C 3/27 Modify footprint
FFC Cable 0.5mm Pitch
BEEP

T/P

KBC

C220 4.7U_8
C219 .1U_4
L18 BLM18PG181SN1D
CN10
*88058-6
C218 *10P_4
C213 *10P_4
C492 .1U_4
CN9
BL123-06R-6P-L
FFC Cable 1.0mm Pitch

WLS

Finger Printer
CN8
88266-040XX-XXX-4P-R
C497 .1U_4
Wire Cable 1.25mm Pitch

BLUETOOTH MODULE CONNECTOR
REV_1C 3/26 Modify
CN13
88266-100XX-XXX-10P-R
C493 .1U_4
R154 *0_4 BT_RESET
R153 0_4 USB_DETACH
Wire Cable 1.25mm Pitch
USB_DETACH: Low USB connect
High USB disconnect

LAN

RJ45/USB
REV_1C 3/27 Add for EMI requirement
U14 G545B2RD1U
80mil
C386 .1U_4
C529 .1U_4
R283 0_4
R36 *6.34K/F_6
C496 .1U_4
CN22
BL123-12R-12P-L-BU1
REV_1C 3/27 Modify footprint
Wire Cable 1.25mm Pitch

KBC

CN2
196130-340201-34P-R
CN14
88171-3400L-34P-R
Keyboard Side
CN12
BL121-28R-TAND-28P-L-BU1
REV_1C 3/27 Modify footprint

D24 CHN217
D23 CHN217
C502 0.1U/X7R-50V_6
C501 0.1U/X7R-50V_6
C503 0.1U/X7R-50V_6
C504 0.1U/X7R-50V_6
C507 .1U_4
C506 .1U_4
U29 TC7SH08FU
R334 10K_4
C505 .1U_4
R389 200K/F_4
R390 86.6K/F_4
REV_1C 3/28 Update PN
R334 要Always 上
REV_1C 3/20 Modify to solve PCMCIA po sound

UIF

BUTTONS ON KB COVER
CN5
REV_1C 3/27 Modify footprint
REV_1C 3/27 Del SW1
FFC Cable 1.0mm Pitch

CBS

Q15 *2N7002E
Q16 *2N7002E
RP45 *4.7KX2_4
NEW_SMDATA
NEW_SMCLK

NEW CARD'S POWER SWITCH
U5 *TPS2231PWG4
H=1.2mm
R159 *28.7K/F_4
C252 *3300P_4
CPPE# : (Internal Pull Up , active low when card support PCIE)
CPUSB# : (Internal Pull Up , active low when card support USB)
SHDN# : (Internal Pull Up)

CN17
*13160171-1
New card
Q14 *DTC144EU
R238 *0_4
R239 *0_4
R221 *0_4

REV_1C 3/27 Add for EMI requirement
C520 100P_4
C521 100P_4
C522 100P_4
C523 100P_4
C524 100P_4
C525 100P_4
C526 100P_4
C527 100P_4

C228 要Always 上
C230 .1U_4
C239 .1U_4
C228 .1U_4
C244 .1U_4
C242 .1U_4
C240 *.1U_4
C243 *4.7U_8
C245 *.1U_4
C248 *.1U_4
C250 *4.7U_8
C247 *.1U_4

PROJECT : BU1(NAPA)
Quanta Computer Inc.
Size
Document Number KB/TP/NEW CARD/BTB
Rev 1C
Date: Friday, March 30, 2007
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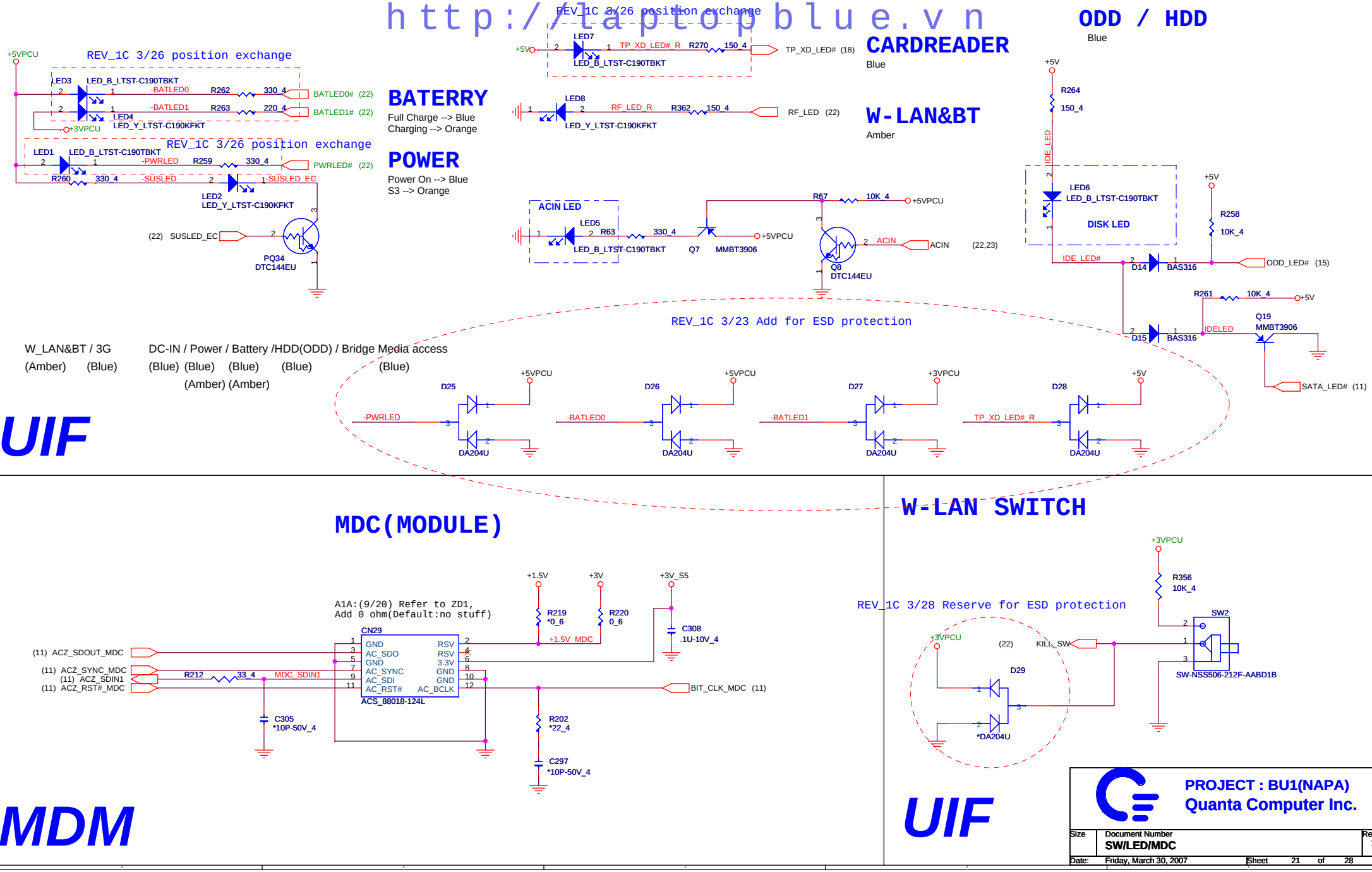


KBC

WPC8763LDG

H=1.6mm

REV_1C 3/23 NOSTUFF reserve for EC

REV_1C 3/26 For LAN power enable

REV_1C 3/27 Mount for EMI

REV_1C 3/27 Add for EMI requirement

08/10 FAE: SMI DOESN'T NEED DIODE

1/13 Vendor mail: Dedicate cap for AVCC

1/13 Comfirm by vendor mail: VDD must power up after VCC/AVCC

1/13 Comfirm by vendor mail: VBAT for keep PLL power let power up can quick! If no VBAT will switch to VCCpower. If PLL no power will cause boot time delay.

08/10 FAE: 0.1UF

FOLLOW INTEL ME-EC INTERFACE SPECIFICATION, 2ND_SMB IS DEDICATED FOR ICH8 CONTROLLER LINK BUS.

0810 FAE: CHECK X'TAL'S FOOTPRINT CEECK RESULT: OK

H=2.5mm

08/10 FAE: ADD ONE GAD PAD UNDER X'TAL, AND KEEP CLEANCE.

1/13 Comfirm by vendor mail : Connect to AGND

8769AGND

08/10 FAE: L83 CAN CHANGE FROM BEAD TO SHORT. BUT, PLEASE PUT AGND & 32K CAP & AVCC CAP AT ONE POINT.

ZS1 STILL USE BEAD FOR SAFE.

0~AVCC power for DA pin power reference

08/14 FAE: Please connect VREF(uRider pin104) to +A3VPCU instead of +3VPCU.

To Keyboard

EC_ME_ALERT (Intel 08/28): Logic high = "AC present", Logic low = "AC not present (DC operation)". EC must not drive a high value on pin until SUS Well is fully powered to prevent leakage. AC/DC indication should be de-bounced by EC.

SM BUS PU

I/O ADDRESS SETTING

	I/O Address	
BADDR1-0	Index	Data
0 0	XOR TREE TEST MODE	
0 1	CORE DEFINED	
1 0	2Eh	2Fh
1 1	164Eh	164Fh

SHBM=0: Enable shared memory with host BIOS

1/13 Comfirm by vendor mail : Disabled ('1') if using FWH device on LPC. Enabled ('0') if using SPI flash for both system BIOS and EC firmware

ID

H=1.75mm

ADDRESS: A0H

SPI FLASH

H=2.16mm

FWH

1/13 Comfirm by vendor mail : If the Southbridge enables 'Long Wait Abort' by default, the flash device should be 50MHz (or faster)

Place between U15 and U17

INTERNAL KEYBOARD STRIP SET

DEBUG PORTS

EC Debug Port

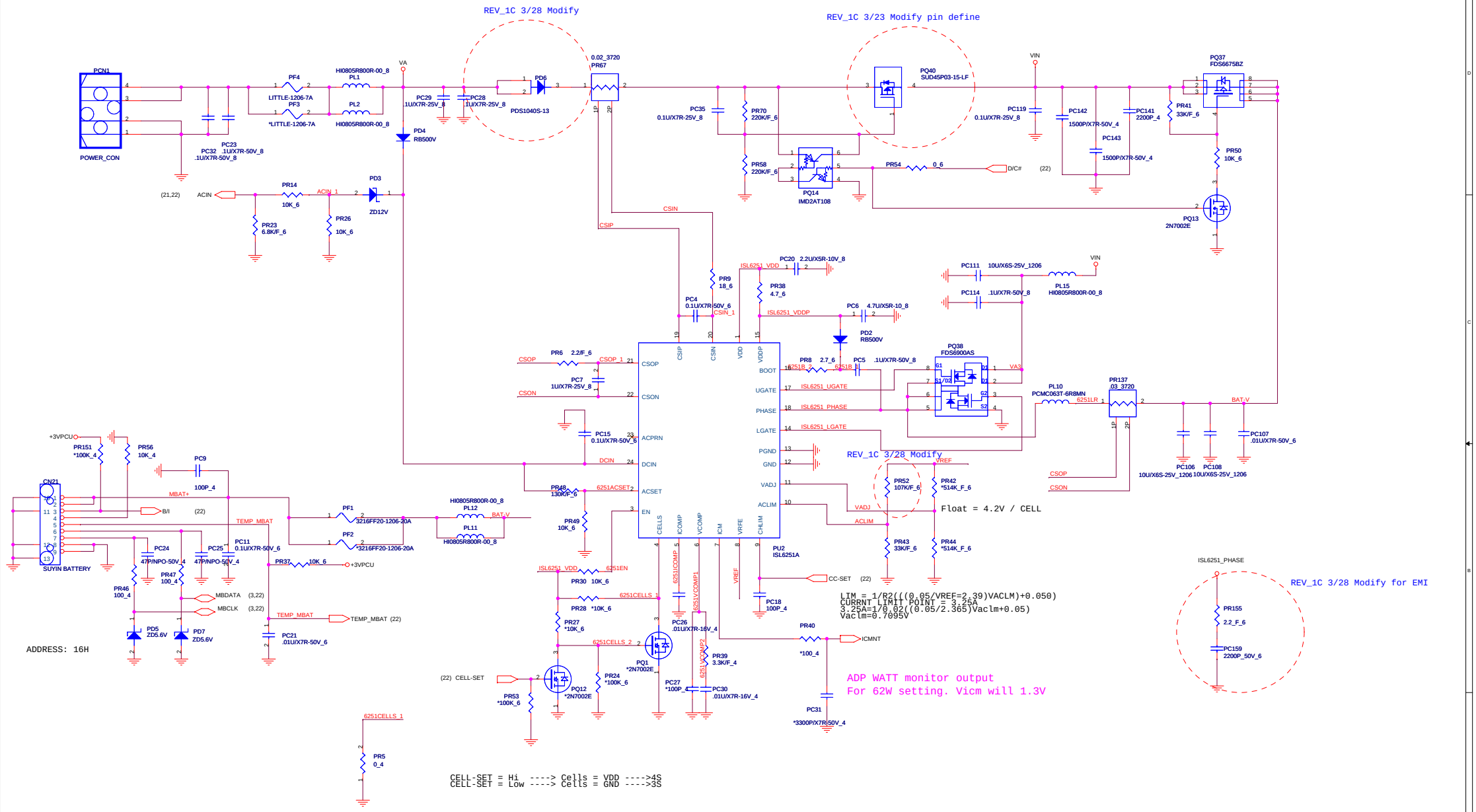
Reserved for LPC debug card

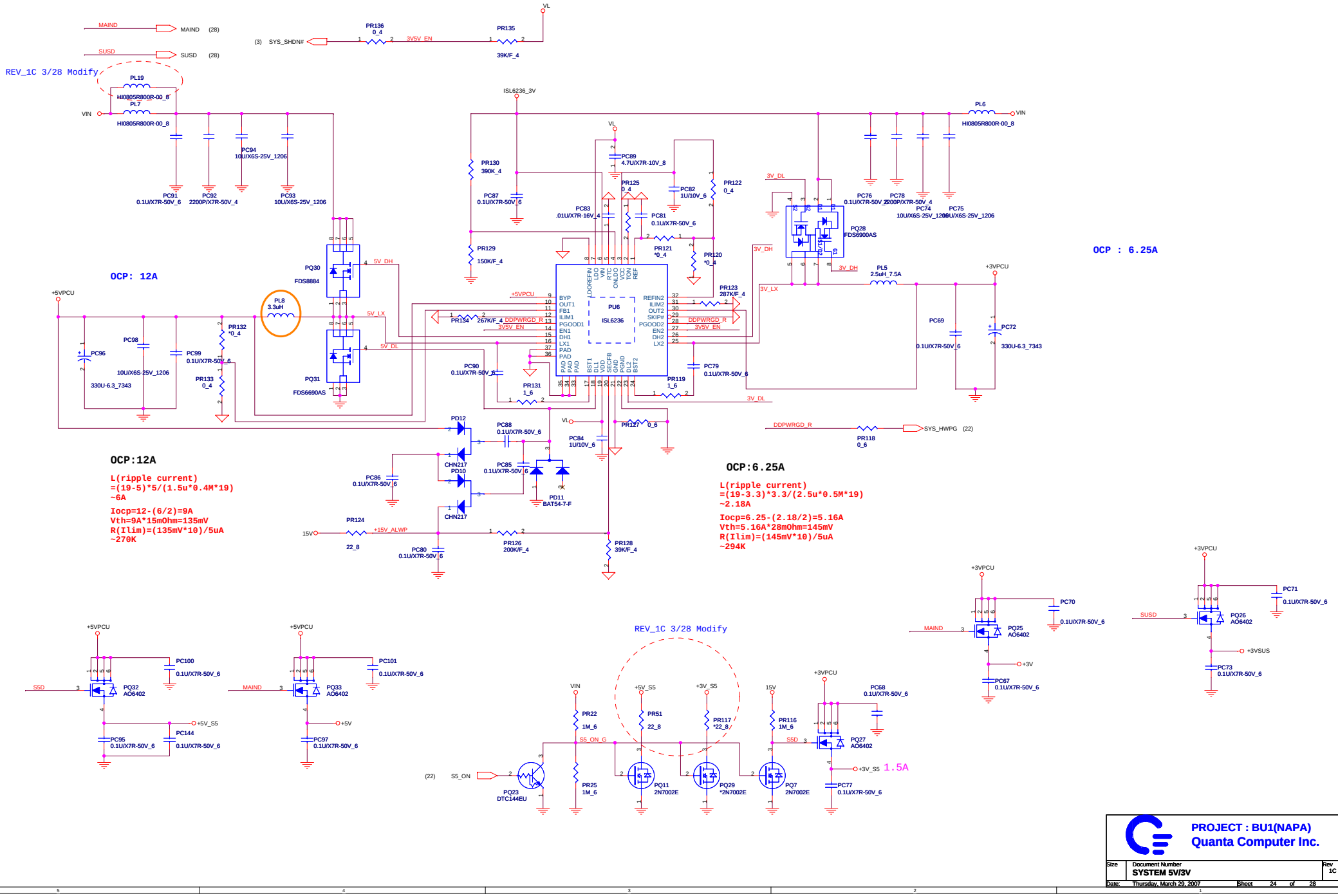
*ACES_88231-0400

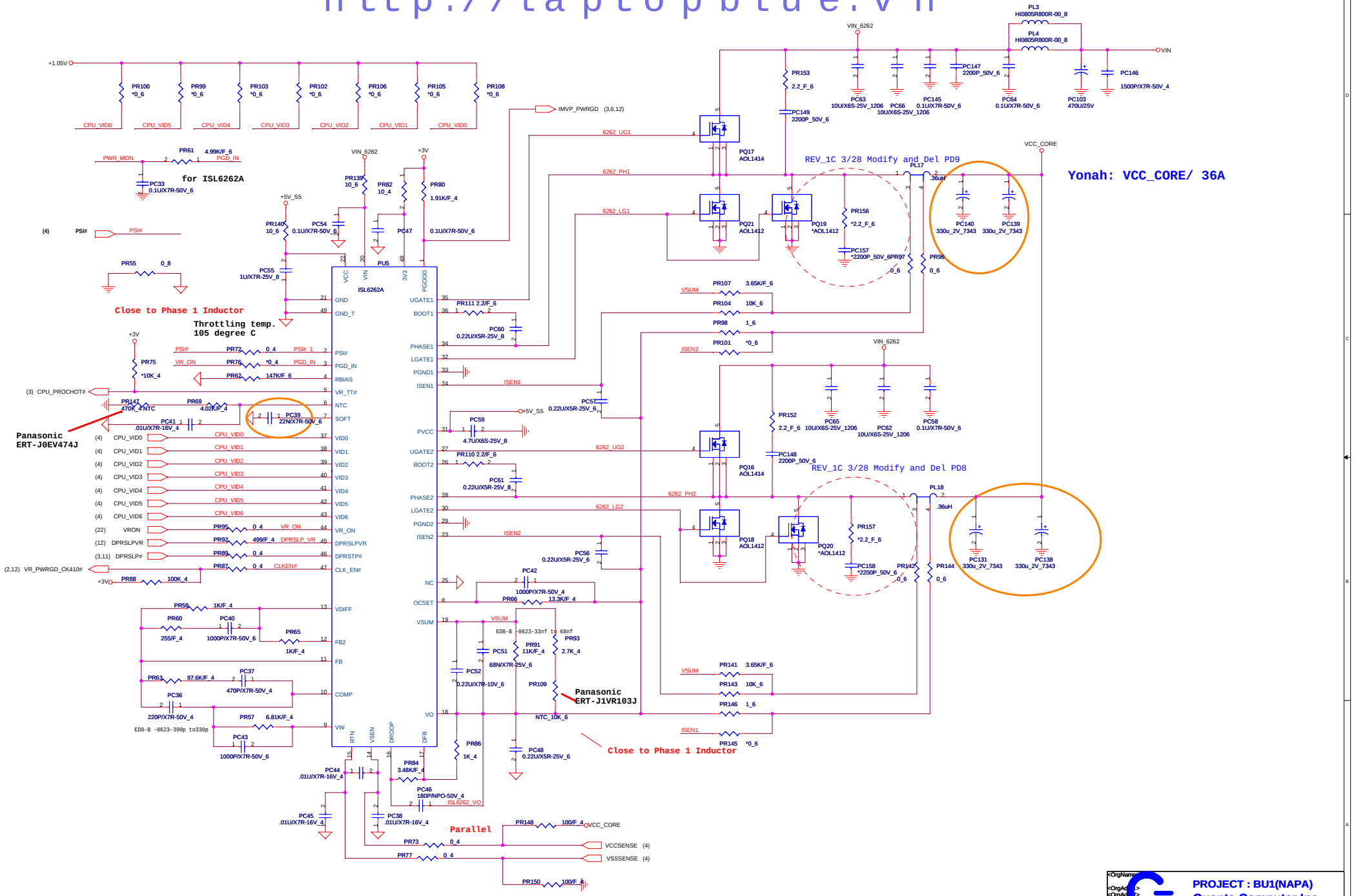
*ACS

-- DAISY CHAIN TOPOLOGY --

PROJECT : BU1(NAPA) Quanta Computer Inc.		
Size	Document Number: EC WPC8763LDG	Rev: 1C
Date: Thursday, March 29, 2007	Sheet 22 of 28	







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<OrgAddr1>	Quanta Computer Inc.		
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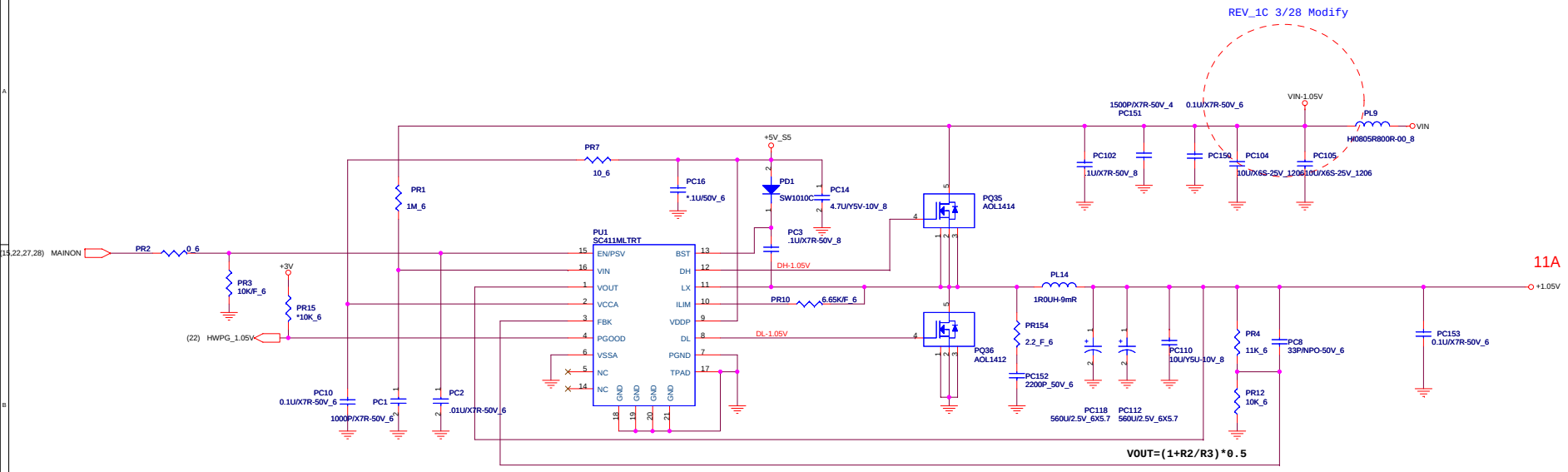
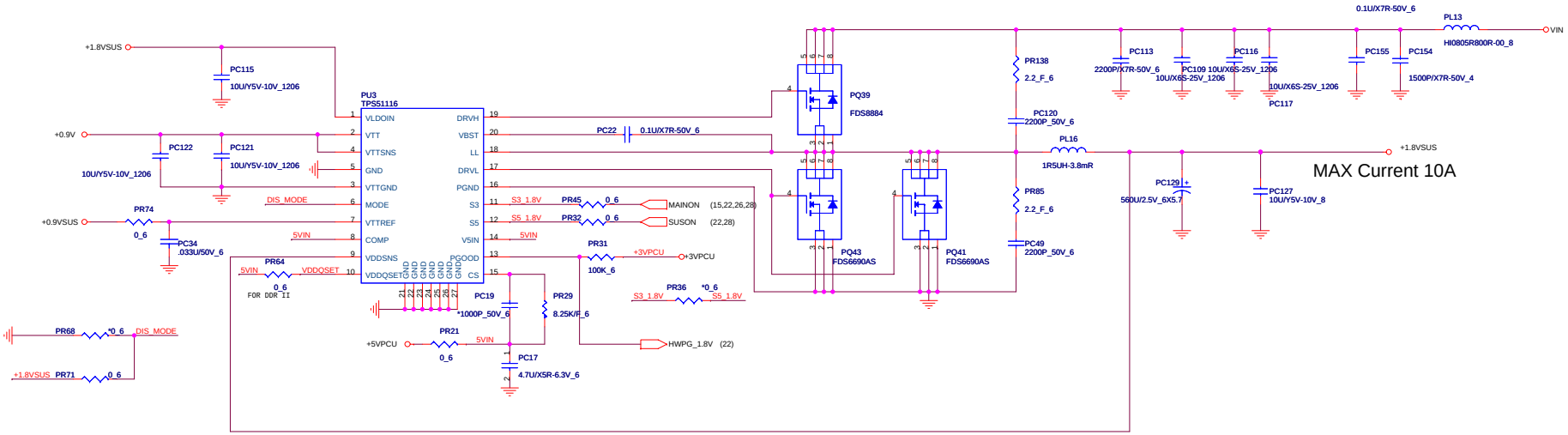
Size	Document Number		Rev
	CPU CAORE (6262A)		1C
Date: Friday, March 30, 2007	Sheet 25 of 28		

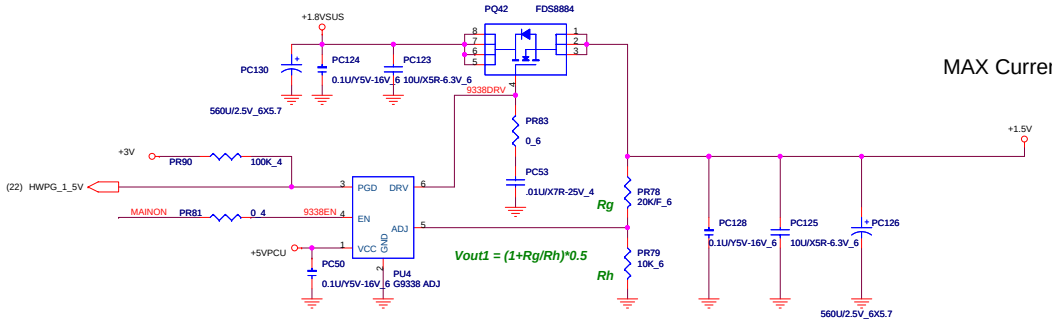


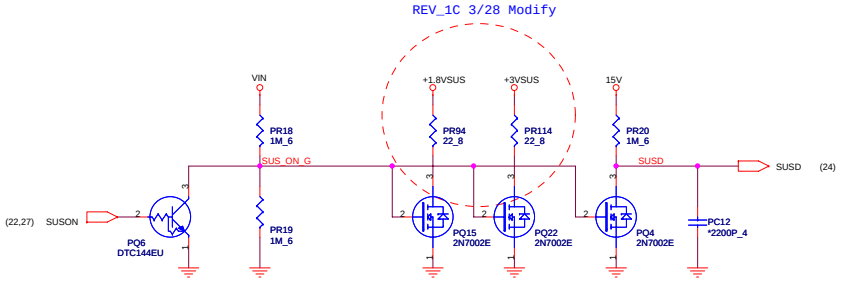
PROJECT : BU1(NAPA)		
Quanta Computer Inc.		
Size	Document Number: VTT 1.05V (SC11)	Rev: 1C
Date: Thursday, March 29, 2007	Sheet 26 of 28	

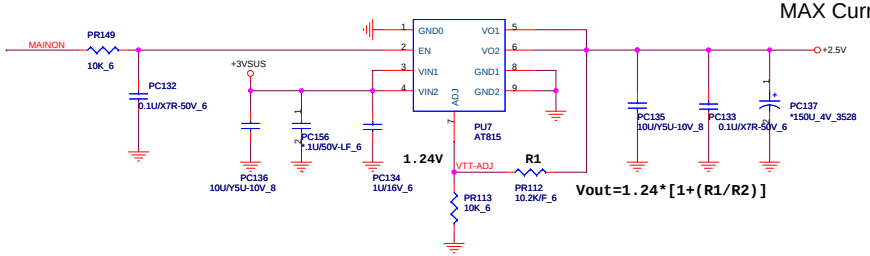


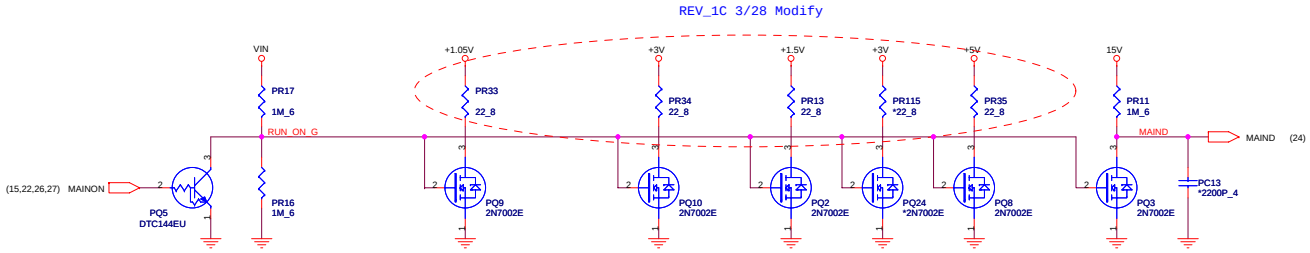
PROJECT : BU1(NAPA)
Quanta Computer Inc.

Size	Document Number	Rev
	DDR2 1.8V(TP1116)	1C
Date: Thursday, March 29, 2007	Sheet 27 of 28	









PROJECT : BU1(NAPA)
Quanta Computer Inc.

Size	Document Number	Rev
	DISCHARGE/1.5V/2.5V	1C
Date: Friday, March 30, 2007	Sheet 28 of 28	

Model	REV	DATE	CHANGE LIST:	NOTE
		20061218	**FIRST RELEASED: E20061218**	
BU1 (NAPA)	**A**	2006/12/22	Page02: U1001 PCIE3 pair connect change to WLAN	Circuit modify
			Page02: U1001 PCIE4 pair connect change to 3G module	Circuit modify
			Page02: U1001 pin33 connect to 3G module CLKREQ# pin	Circuit modify
			Page03: Del R1038	Q1006 pin3 already has pull-up resistor
			Page03: Del R382,R383,Q60 and D39	Circuit modify
			Page03: U28 pin1 connect to MAX6648_OV# directly	Circuit modify
			Page06: U1003 pin"D32" connect to CN43 to control LCD backlight (Back-up solution)	Circuit modify
			Page12: Reserve R1222 connect to GND	
			Page12: Del R1189	Already pull-up in the Page22
			Page12: Add signal HDPACT connect to G-Sensor controller	
			Page12: Add signal HDPINT connect to G-Sensor controller	
			Page14: Add second (LED backlight) solution	Circuit modify
			Page15: Change G-Sensor solution	Circuit modify
			Page19: Modify screw holes to make the same with BU1	
			Page20: Add R1223 and C1273	Reserve for EMI
			Page20: Add C810	
			Page21: Change the connection of the ODD/HDD LED circuit	To prevent the voltage leakage
			Page22: Signal HWPG_CPUIO change name to HWPG_1.5V	
			Page22: Del D64	We don't have HWPG_1.5V signal
			Page26: Mount PR109	HWPG_1.05V is open-drain signal
		2006/12/25	Page14: Change LCD connector pin define	Circuit modify
			Page15: Add C97 for ODD power and C98 for SATA power	Circuit modify
			Page18: Reserve D1006 for LPC_PD# function	Circuit modify
			Page19: Del R729, R730	WLAN don't support USB signals
			Page22: Add R765 and R766 for reserve the G-sensor	Circuit modify
			Page23: Del PL2,3,8,9 and add PF1~4	Power circuit modify
			Page24: Del power jump of +3VPCU and +5VPCU	Power circuit modify
			Page26: Add PR156	Power circuit modify
			Page28: Del power jump of +1.5V and +2.5V	Power circuit modify
		2006/12/28	Page14: Add C1284	Circuit modify
			Page15: Del R1226	Circuit modify
		2007/01/03	**FIRST RELEASED GERBER FILE(RE-NAME)**	
		2007/01/24		

MODEL / Page	BU1 FROM	BU1 To
1	1A	
2	1A	
3	1A	
4	1A	
5	1A	
6	1A	
7	1A	
8	1A	
9	1A	
10	1A	
11	1A	
12	1A	
13	1A	
14	1A	
15	1A	
16	1A	
17	1A	
18	1A	
19	1A	
20	1A	
21	1A	
22	1A	
23	1A	
24	1A	
25	1A	
26	1A	
27	1A	
28	1A	

QUANTA COMPUTER INC

PROJECT MODEL :	BU1	APPROVED BY:	Vic Lin #15598	DATE:	2007/01/04
PART NUMBER:	31BU1MB0010	DRAWING BY:	Jack Lin #17535	REVISON:	1A

DOC NO. 204

SHEET: 1 of 3

PROJECT : BU1(NAPA)
Quanta Computer Inc.

Size	Document Number	Rev
	Change List A	1A

Date: Thursday, March 29, 2007 Sheet 29 of 29

Model	REV	DATE	CHANGE LIST:	NOTE
		20061218	**FIRST RELEASED: E20061218**	
BU1 (NAPA)	**B**	2007/01/24	Page02: Add R382 and connect to PCLK_DEBUG	Circuit modify
			Page03: Change Thermal Protect Schematic	Circuit modify
			Page09: Add C486	Circuit modify
			Page11: Add R367 and R194 change to 8.66K	Circuit modify
			Page14: Change LED type panel schematic	Circuit modify
			Page20: CN18 change to 16 pin and add a LED_LOGO signal	Circuit modify
			Page22: Add R365, R366	Circuit modify
			Page22: Add R368~R370	Circuit modify
		2007/01/29	Page14: Add F2	Customer require
			Page14: Add C487,C488,C489,C498,L34 and L35	EMI suggestion
			Page19: Add R363,R364,R383,R384	Circuit modify
			Page20: Add CP3~CP6	EMI suggestion
			Page20: Add CN2	Add second source
			Page20: Add C492~C497	EMI suggestion
			Page20: CN15 change to 10pin and connect one more +5V_S5 and GND	Circuit modify
			Page20: CN18 change to 16pin and connect one more LED_LOGO and USB_PWREN# signal to EC	Circuit modify
			Page21: R263 and R356 connect change to +3VPCU	Circuit modify
			Page22: Add R490,R491 and L36	EMI suggestion
			Page22: Add R385 and connect to INT_LVDS_BLON signal	Circuit modify
			Page23: Add PR151 and PR56 connect to B/I signal	Circuit modify
			Page23: PQ40 change type	Circuit modify
			Page23: Add PC141~PC143	EMI suggestion
			Page24: Add PC144	EMI suggestion
			Page25: Add PC145~PC149 and PR152,PR153	EMI suggestion
			Page26: Add PC150~PC153 and PR154	EMI suggestion
			Page27: Add PC154,PC155	EMI suggestion
			Page28: Add PC156	EMI suggestion
		2007/01/30	Page09: Add C500	Circuit modify
			Page09: Add U28 for G-Sensor controller reset	Circuit modify
		2007/01/31	Page19: Del SIM card function	Circuit modify
			Page20: Del FM tuner interface	Circuit modify
			Page21: Del 3G LED	Circuit modify
		2007/02/01	Page14: Add R12,R16,C15,C316	Circuit modify
			Page15: Add R361,R386,R387,R388	Circuit modify
			Page19: Add HOLE22	Circuit modify

MODEL / Page	BU1 FROM	BU1 To
1	1A	1B
2	1A	1B
3	1A	1B
4	1A	1B
5	1A	1B
6	1A	1B
7	1A	1B
8	1A	1B
9	1A	1B
10	1A	1B
11	1A	1B
12	1A	1B
13	1A	1B
14	1A	1B
15	1A	1B
16	1A	1B
17	1A	1B
18	1A	1B
19	1A	1B
20	1A	1B
21	1A	1B
22	1A	1B
23	1A	1B
24	1A	1B
25	1A	1B
26	1A	1B
27	1A	1B
28	1A	1B
29	1A	1B

QUANTA COMPUTER INC

PROJECT MODEL :	BU1	APPROVED BY:	Vic Lin #15598	DATE:	2007/01/24
PART NUMBER:		DRAWING BY:	Jack Lin #17535	REVISON:	1B

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SHEET: 2 of 23

PROJECT : BU1(NAPA)
Quanta Computer Inc.

Size	Document Number	Rev
	Change List A to B	1B

Date: Thursday, March 29, 2007 Sheet 29 of 29

Model	REV	DATE	CHANGE LIST:	NOTE
		20061218	**FIRST RELEASED: E20061218**	
BU1 (NAPA)	C	2007/03/20	Page14: D1 and F2 exchange position	Circuit modify
			Page20: Add U29, D23, D24, C501~C507, R389, R390	To solve insert PCMCIA Card speaker has bo sound
		2007/03/23	Page03: Add C513	Circuit modify
			Page11: Add C508~C512	Reserve for EMI
			Page18: Del CN33, CN34	Can't placement in the latest ME drawing
			Page19: Add R30, R32	Reserve for Realtek WLAN card
			Page19: Mount Q6	Circuit modify
			Page20: Del CP4	Circuit modify
			Page21: Add D25~D28	For ESD protection
			Page22: R385 change to NOSTUFF	EC don't need this function
		2007/03/25	Page16: Add Q2, C514, C515	Circuit modify
			Page23: PQ40 change footprint	Circuit modify
		2007/03/26	Page14: C4,C5,C6,C8,C9,C10 modify value to 10pF	Circuit modify
			Page14: L2,L3,L4 modify value	Circuit modify
			Page21: LED1& R259, LED3 & R262, LED4 & R263, LED7 & R270 position exchange	Circuit modify
		2007/03/27	Page16: Add C518 0.1uF	For EMI requirement
			Page19: Add C528 0.1uF	For EMI requirement
			Page20: CN6,CN12,CN18,CN22 modify footprint	Circuit modify
			Page20: Add C520~C527 100pF and C529 0.1uF	For EMI requirement
			Page20: Del SW1	Don't need this function
			Page22: Add C516,C517,C519 0.1uF	For EMI requirement
		2007/03/28	Page18: Del U26 and C352	Circuit modify
			Page19: HOLE12 modify footprint	Circuit modify
			Page19: HOLE12 modify footprint	
			Page20: Add PAD1	For EMI requirement

MODEL / Page	BU1 FROM	BU1 To
1	1B	1C
2	1B	1C
3	1B	1C
4	1B	1C
5	1B	1C
6	1B	1C
7	1B	1C
8	1B	1C
9	1B	1C
10	1B	1C
11	1B	1C
12	1B	1C
13	1B	1C
14	1B	1C
15	1B	1C
16	1B	1C
17	1B	1C
18	1B	1C
19	1B	1C
20	1B	1C
21	1B	1C
22	1B	1C
23	1B	1C
24	1B	1C
25	1B	1C
26	1B	1C
27	1B	1C
28	1B	1C
29	1B	1C

QUANTA COMPUTER INC

PROJECT MODEL :	BU1	APPROVED BY:	Vic Lin #15598	DATE:	2007/03/23
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